TC-KA2ES/KE600S

SERVICE MANUAL

US Model Canadian Model AEP Model UK Model E Model Australian Model TC-KE600S

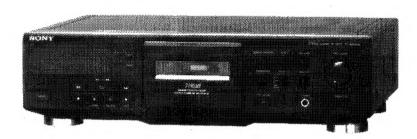


Photo: TC-KE600S

Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation, HX Pro originated by Bang & Olufsen.

"DOLBY", the double-D symbol DD and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

Model Name Using Similar Mechanism	TC-K661S
Tape Transport Mechanism Type	TCM-200V21

SPECIFICATIONS

System

Recording system

4-track 2-channel stereo

Fast winding time (approx.)

90 sec. (with Sony C-60 cassette)

High-speed fast-winding time (approx.)

45 sec. (with Sony C-60 cassette)

AC bias

Erasing head × 1 (S&F head) Recording head × 1 (SD head) Playing head ×1 (SD head)

Capstan motor × 1 (DC servo motor) Reel motor × 1 (DC motor) Assist (mechanism drive) motor × 1 (DC motor)

Signal-to-noise ratio (at peak level, weighted, and with Dolby NR off)

Type I tape, Sony Type I (NORMAL): 61 dB Type II tape, Sony Type II (HIGH): 59 dB Type IV tape, Sony Type IV (METAL): 57 dB

S/N ratio improvement (approximate values)

With Dolby B NR on: 5 dB at 1 kHz, 10 dB at 5 kHz With Dolby C NR on: 15 dB at 500 Hz, 20 dB at 1 kHz With Dolby S NR on: 10 dB at 100 Hz, 24 dB at 1 kHz

MICROFILM

0.4% (with Type I tape, Sony Type I (NORMAL): 160n Wb/m 315 Hz, 3rd H.D.) 1.5% (with Type IV tape, Sony Type IV (METAL): 250n Wb/m 315 Hz, 3rd H.D.)

Frequency response (Dolby NR off)

Type I tape, Sony Type I (NORMAL): 15 - 17,000 Hz (±3 dB, IEC) 10 - 19,000 Hz (±6 dB)

Type II tape, Sony Type II (HIGH): 15 - 18,000 Hz (±3 dB, IEC)

10 - 20,000 Hz (±6 dB)

Type IV tape, Sony Type IV (METAL): 15 - 21,000 Hz (±3 dB, IEC)

15 - 16,000 Hz (±3 dB, -4dB recording)

10 - 22,000 Hz (±6 dB)

Wow and flutter

±0.065% W. Peak (IEC) 0.045% W. RMS (NAB) ±0.12% W. Peak (DIN)

- Continued next page -



Inputs

Line inputs (phono jacks)

Sensitivity: 0.16 V

Input impedance: 47 kilohms

Outputs

Line outputs (phono jacks)

Rated output level: 0.5 V at a load impedance of

47 kilohms

Load impedance: Over 10 kilohms

Headphones (stereo phone jack)

Output level: 0.25 mW at a load impedance of

32 ohms

General

Power requirements

Where purchased	Power requirements	
US, Canadian model	120 V AC, 60 Hz	
AEP, UK, German, Singapore model	220-230 V AC, 50/60 Hz	
Australian model	240 V AC, 50/60 Hz	
E model	120, 220, or 240 V AC, 50/60 Hz adjustable with the voltage selector	

Power consumption

21W

Dimensions (approx.) (w/h/d)

 $430 \times 120 \times 310$ mm ($17 \times 4^{3}/4 \times 12^{1}/4$ inches) incl. projecting parts and controls

Mass (approx.)

4.6 kg (10 lbs 2 oz)

Supplied accessories

Audio connecting cords (2)

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

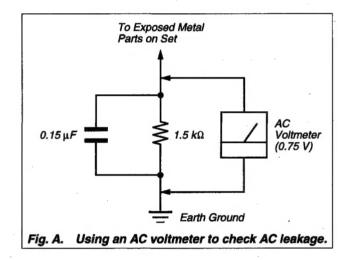
SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers.). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

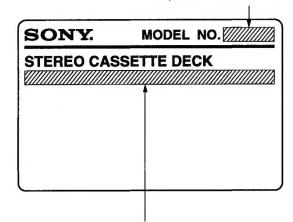


ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

MODEL IDENTIFICATION

US, Canadian model: TC-KA2ES Except US, Canadian model: TC-KE600S

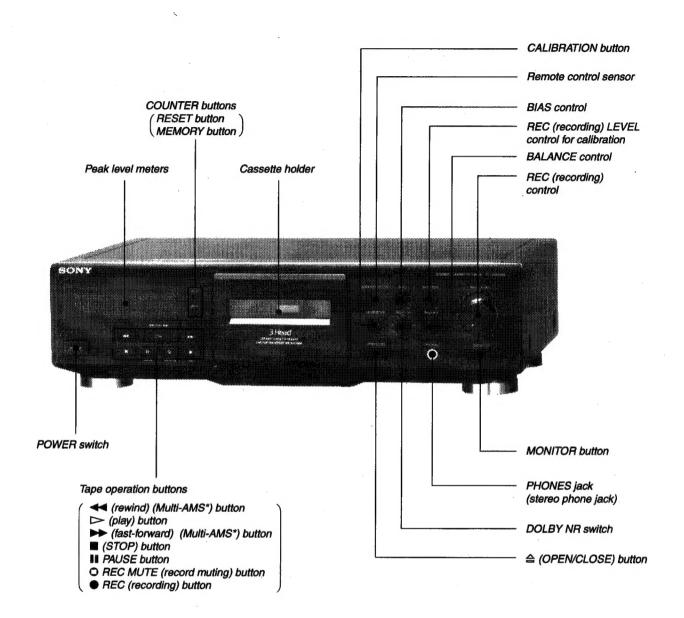


US, Canadian model: AC 120 V 60Hz 21W AEP, UK, German, Singapore model: AC 220 – 230 V \sim 50/60 Hz 21 W E model: AC 120, 220, 240 V \sim 50/60 Hz 21 W Australian model: AC 240 V \sim 50/60 Hz

TABLE OF CONTENTS

1.	GENERAL	4
2.	DISASSEMBLY	5
3.	MECHANICAL ADJUSTMENTS	8
4.	ELECTRICAL ADJUSTMENTS	9
5.	DIAGRAMS	
5-1.	IC Pin Function Description	12
5-2.	Printed Wiring Boards	17
5-3.	Schematic Diagram	
	- Audio Section	21
5-4.	Schematic Diagram	
	- System Control Section	25
6.	EXPLODED VIEWS	28
7.	ELECTRICAL PARTS LIST	32

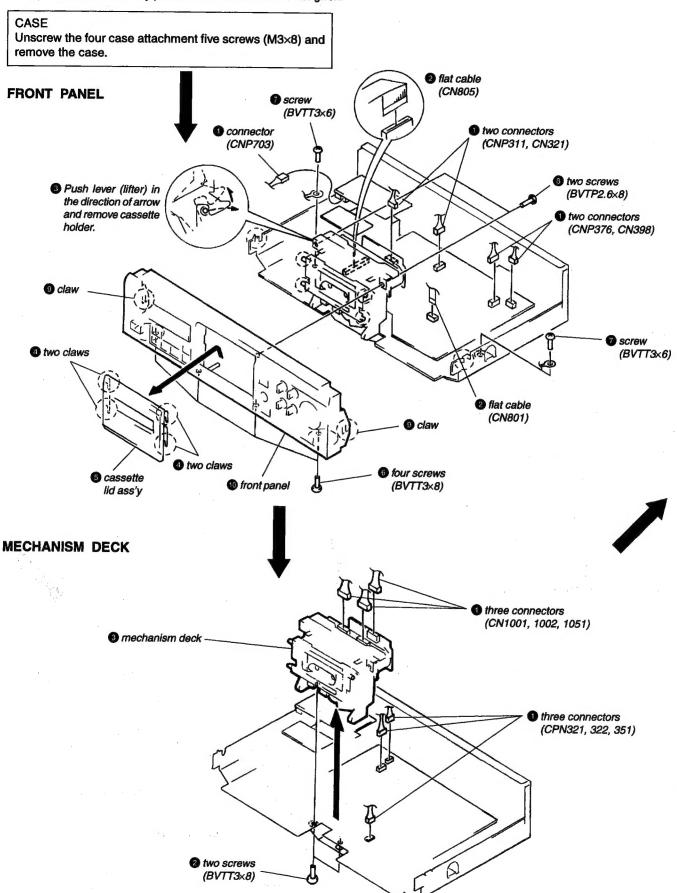
SECTION 1 GENERAL



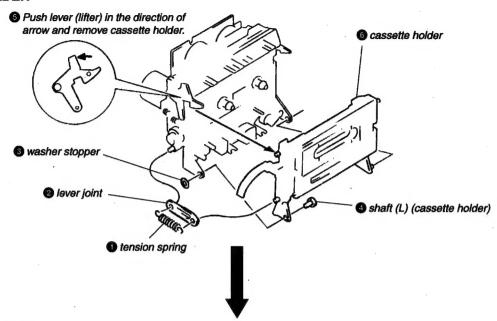
^{*} AMS is an abbreviation for Automatic Music Sensor.

SECTION 2 DISASSEMBLY

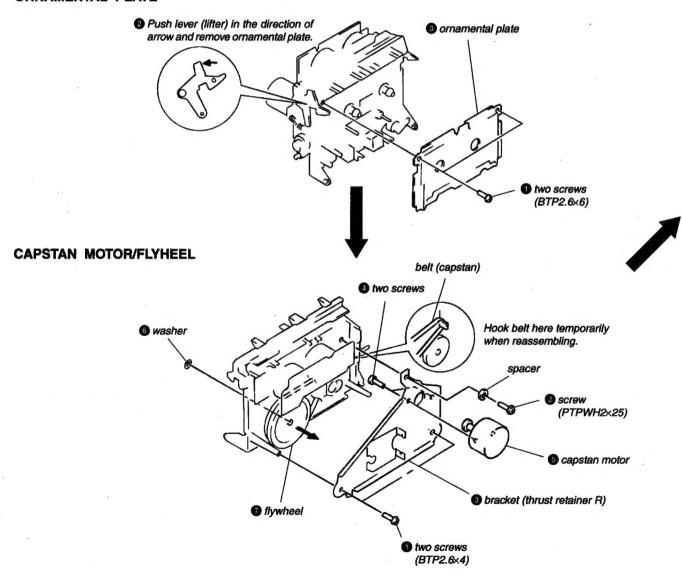
Note: Follow the disassembly procedure in the numerical order given.



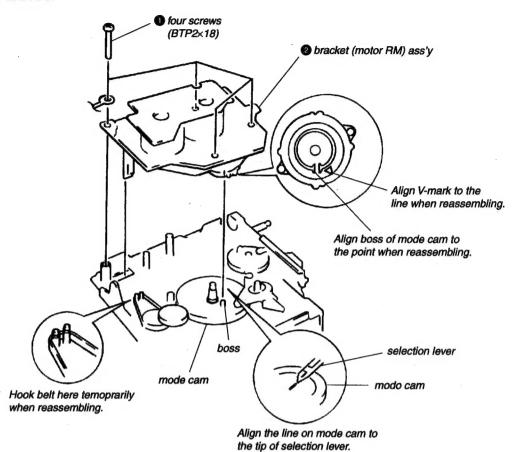
CASSETTE HOLDER

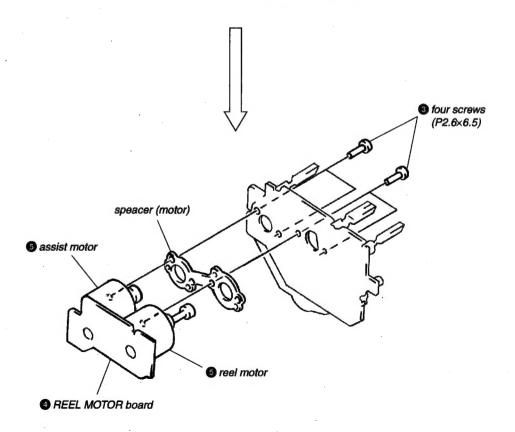


ORNAMENTAL PLATE



REEL AND ASSIST MOTOR





SECTION 3 MECHANICAL ADJUSTMENTS

PRECAUTION

 Clean the following parts with a denatured alcohol-moistened swab:

record/playback/erase head pinch roller rubber belts capstan

idlers

- Demagnetize the record/playback head with a head demagnetizer.
 - (Head demagnetizer do not approach for the erase head.)
- 3. Do not use a magnetized screwdriver for the adjustment.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque	Meter reading		
Forward CQ-102C		30 to 60 g•cm (0.42 to 0.83 oz•inch)		
Forward back tension CQ-102C FF/REW CQ-201B		1 to 5 g•cm (0.014 to 0.069 oz•inch)		
		65 to 90 g•cm (0.90 to 1.24 oz•inch)		

Record/Playback Head Height/Declination Adjustment Procedures:

- 1. Test cassette: CQ-009C
- Insert the mirror cassette and put the unit in record/Playback mode.
 - 1) Height Adjustment:

Check to see if the tape is curling at the tape guide of the head. If it is curling, tighten screws (A), (B) and (C), respectively by the same angle, moving the head so that it remains at the same angle throughout the procedure. If it curls on the bottom side of the mirror cassette (actually the inner side), tighten all the screws equally; but loosen them if the tape begins to curl on the top side. (outer side.)



Normal (Record/playback head as seen from the side of the erasehead.)





Curling on the inner Curling on the outer side side

Tighten screws (A), (B) Loosen screws (A), (B) and (C).

2) Declination Adjustment:

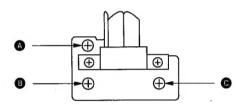
While in the record/playback position, set the back tension to 0 (wind the supply reel with something thin like a pencil in a counterclockwise direction) and make sure there is no curling or shifting (shifting up/shifting down) at the guide of the record/playback head.

Because shifting can only occur due to a difference in the width of the tape and that of the tape guides (curling will otherwise occur), it is necessary to pay close attention since it can be easily overlooked.

When there is a shift, tighten screws **3** and **4** equally and change the declination of the head. If the tape is shifting up, tighten the screws, and if it is shifting down, loosen them.

Repeat the adjustments in steps 1) to 2) and fine adjust the height and the declination.

Adjustment Location: - record/playback head -



SECTION 4 ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in the service manual. As a rule, adjustments about playback should be performed before those about recording.

The adjustments should be performed before for both L-CH and R-CH.

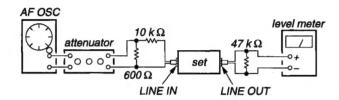
 Switches and controls should be set as follows unless otherwise specified.

> DOLBY NR switch : OFF MPX FILTER switch : OFF MONITOR switch : Tape

· Standard Record:

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

- Record Mode -



0 dB=0.775 V

Standard Input Level

input terminal	LINE IN		
source impedance	10 kΩ		
input level	0.5 V (-3.8 dB)		

Standard Output Level

output terminal	LINE OUT	
load impedance	47 kΩ	
output level	0.5 V (-3.8 dB)	

Test Tape

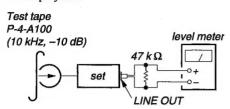
Туре	Signal	Used for	
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment	
P-4-L300	315 Hz, 0 dB	Playback Level Adjsutment	
WS-48B	3 kHz, 0 dB	Tape Speed Check	

Test Mode

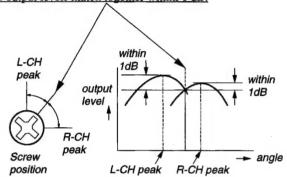
This set will get into test mode by shorting the pins of TP802 (TEST) on MAIN board before turning the power on.

Record/Playback Head Azimuth Adjustment Procedure:

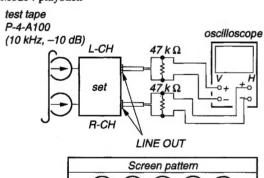
1. Mode: FWD playback

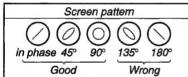


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1 dB.



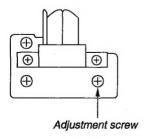
3. Phase Check Mode: playback





4. After the adjustment, lock the screw with locking compound.

Adjustment Location: Record/Playback head



Tape Speed Check

Procedure:

Mode: playback

test tape

WS-48B
(3 kHz, 0 dB)

frequency counter

1. Short the connector TP802 (pins ① and ②). (test mode)

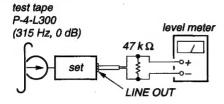
LINE OUT

- 2. Set to FWD playback mode.
- 3. Confirm that the frequency counter reading becomes 3,000 ± 30 Hz.
- 4. After checked, open the connector TP802.

Playback Level Adjustment

Procedure:

Mode: playback



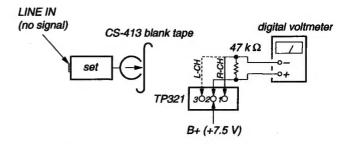
Adjust RV151 (L-CH) and RV251 (R-CH) so that the reading on level meter meets the adjustment limits below.

Adjustment Limits:

LINE OUT level: -8.2 to -7.2 dB (0.301 to 0.338 V)
Level difference between channels: within 0.5 dB
Check that the LINE OUT level does not change even if Playback and Stop operation is repeated several times.

Adjustment Location: MAIN board

Bias Consumption Current Adjustment Procedure:



- Set RV121 (L-CH) and RV221 (R-CH) to mechanical center and turn the set recording mode.
- 2. Connect digital voltmeter as shown by the following table.
- Adjust the following transformers for the minimum readings on the digital voltmeter.

	Measurement Point	Adjustment Part	Value
L-CH	② and ③, TP321	T121	less than
R-CH	① and ②, TP321	T221	220 mV

Adjustment Location: MAIN board

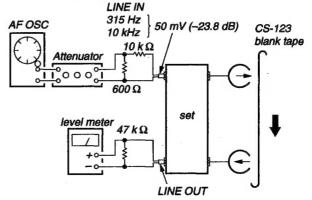
Record Bias Adjustment

Setting:

REC LEVEL control: Standard Record (See page 9.)

Procedure:

1. Mode: record and playback



 Adjust RV121 (L-CH) and RV221 (R-CH) so that 10 kHz playback output is 0±0.3 dB relative to the 315 Hz output.

Adjustment Location: MAIN board

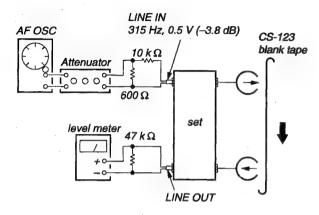
Record Level Adjustment

Setting:

REC LEVEL control: Standard Record (See page 9.)

Procedure:

1. Mode: record and playback



 Adjust RV112 (L-CH) and RV212 (R-CH) so that the reading on level meter meets the adjustment limits below.
 Adjustment Limits: -4.3 to -3.3 dB (0.47 to 0.53 V)

Adjustment Location: MAIN board

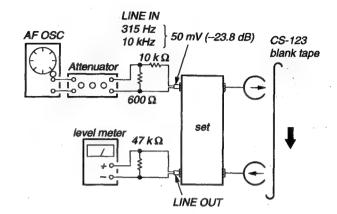
Record EQ (IV) Adjustment

Setting:

REC LEVEL control: Standard Record (See page 9.)

Procedure:

1. Mode: record and playback



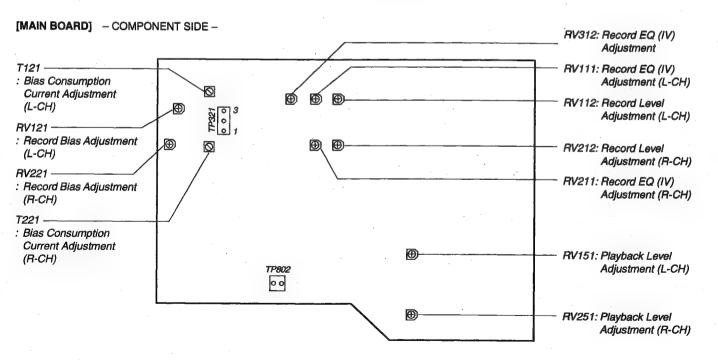
- 2. Adjust RV111 and RV211 so that they become maximum.
- 3. Adjust RV111 (L-CH) and RV211 (R-CH) so that the difference between R-CH and L-CH at 10 kHz is within 1 dB.
- 4. Adjust RV312 so that the R-CH meet the specification.

Adjustment Limits:

 $10\ kHz$ level difference against 315 Hz reference. $0{\pm}1.0\ dB$

Adjustment Location: MAIN board

Adjustment Location:



5-1. IC MAIN BO

	Pi	n.	No.	
		1		
	2			
	3			
	4			
	5			
	6			
Ì		7	,	
	_	9		
		10		
		1		
		1:		
		1:		
		14		
		1:		
		10	6	
		1'	7	
		18		
		15	9	
		20		
		2		
		2:		
		2		
		2		
		2:		
		20	6	
i		2′		
		28	_	
		29		
		30		
		3		
	_	32		
		3:		
		34		
		3.		
		30		
		3		
	_	39		
	-	40		
		4	l 	
		42	2	
		4.	3	
		4		
١		4.	5	

SECTION 5 DIAGRAMS

5-1. IC PIN FUNCTION DESCRIPTION MAIN BOARD IC801 M38172M4-171FP (SYSTEM CONTROL)

Pin. No.	Pin Name	VO	Function
1	T • REEL	I	Take up reel rotation detection input.
2	S • REEL	I	Supply reel rotation detection input.
3	METER L-CH	I	Meter level L-CH input.
4	METER R-CH	I	Meter level R-CH input.
5	AMS • IN	I	AMS signal input terminal.
6	STOP SW	I	Mechanism stop switch input terminal.
7 .	CLOSE SW	_	Not used. (H level)
8	OPEN SW		Not used. (H level)
9	CAM • SW3	-	Not used. (H level)
10	CAM • SW2	_	Not used. (H level)
11	CAM • SW1	_	Not used. (H level)
12	CAM • SW0	_	Not used. (H level)
13	CAP • M • ON/OFF	0	Capstan motor ON/OFF control. H: ON
14	ASIST M • UP	-	Not used. (L level)
15	ASIST M • DOWN	-	Not used. (L level)
16	REEL M • FWD	0	Reel motor FWD control.
17	REEL M • REV	0	Reel motor REW control.
18	EJECT • V (6.5 V)	0	Reel motor eject control.
19	FF/REW • V (4.4 V)	0	Reel motor FF/REW control.
20	PLAY • V (2.5 V)	0	Reel motor play control.
21	TYPE • IV	I	Type IV SW input terminal.
22	HALF SW	_	Not used. (Open)
23	TYPE • II	I	Type II SW input terminal.
24	TAB • SW	-	Not used. (H level)
25	POWER IN	I	Power OFF detection terminal.
26	SIRCS IN	I	Sircs signal input terminal.
27	RESET	I	System reset terminal.
28	XC IN	-	Not used. (Open)
29	XC OUT	-	Not used. (Open)
30	X IN	I	System clock oscillator input. (4.0 MHz)
31	X OUT	0	System clock oscillator output. (4.0 MHz)
32	VSS	NOTE:	Ground.
33	VER 200/190	I	Version selection input.
34	POWER OUT	0	Power hold output terminal.
35	MONITOR TAPE/SOURCE	0	Audio mode select terminal.
36	LINE M • ON/OFF	0	Line mute ON/OFF control.
37	OSC H/L	0	OSC frequency H/L selection terminal.
38	CAL ON/OFF	0	Calibration ON/OFF control.
. 39	REC • ON/OFF	0	REC mute ON/OFF control.
40	BIAS ON/OFF	0	Bias ON/OFF control.
41	DOL • CON (H-C, M, –B, L-OFF)	0	Dolby ON/OFF control.
42	SEG • IV	O	Bias EQ IV control.
43	$SEG \bullet DOL C (B/C \bullet \overline{S})$	0	VFD segment drive (Dolby C).
44	SEG • DOL B (B/C • S)	О	VFD segment drive (Dolby B).
45	SEG PROPER (I, II)	0	VFD segment drive (Type I, II).

23 c tape

num. he differ-1B.

n.

2 (IV)
it
2 (IV)
it (L-CH)
vel
it (L-CH)

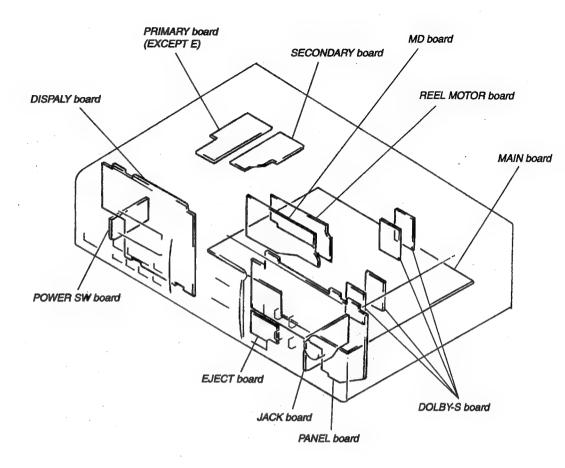
vel it (R-CH) 2 (IV) it (R-CH)

_evel it (L-CH)

Level nt (R-CH)

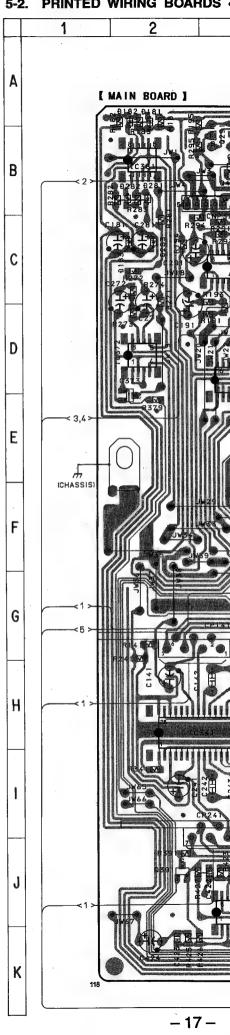
Pin. No.	Pin Name	1/0	Function
46	SEG • FIL ON/OFF	0	VFD segment drive (Filter).
47	SEG • DOL S ON/OFF	0	VFD segment drive (Dolby S).
48	-		Not used. (Open)
49	SEG01	0	VFD segment drive.
50	SEG02	0	VFD segment drive.
51	SEG06	0	VFD segment drive.
.52	SEG07	0	VFD segment drive.
53	SEG03	0	VFD segment drive.
54	SEG05	0	VFD segment drive.
55	SEG04	0	VFD segment drive.
56	SEG08	· 0	VFD segment drive.
57	SEG16	0	VFD segment drive.
58	SEG09	0	VFD segment drive.
59	SEG10	0	VFD segment drive.
60	SEG14	0	VFD segment drive.
61	SEG15	0	VFD segment drive.
62	SEG11	0	VFD segment drive.
63	SEG13	0	VFD segment drive.
64	SEG12	0	VFD segment drive.
65	SEG • CAL	0	VFD segment drive. (calibration)
- 66	SEG • I	0	Bias EQ I control.
67	SEG • II	0	Bias EQ II control.
68	G5-HYOUJI	0	VFD colum display.
69	G4-SEC	0	VFD colum SEC.
70	G3-MIN	0	VFD colum MIN.
71	G2-RCH	0	VFD colum R-CH.
72	G1-LCH	0	VFD colum L-CH.
73	VCC	-	Power supply. (+5 V)
74	VEE	_	Power supply. (-24 V)
75	AVSS	_	Analog for power supply. (Ground)
76	VREF	~	A/D reference voltage. (+5 V)
77	KEY2	I	Key input terminal.
78	KEY1	I	Key input terminal.
79	HALF SW	I	Half pawl switch input terminal.
80	DOLBY SW	I	Dolby switch input terminal.

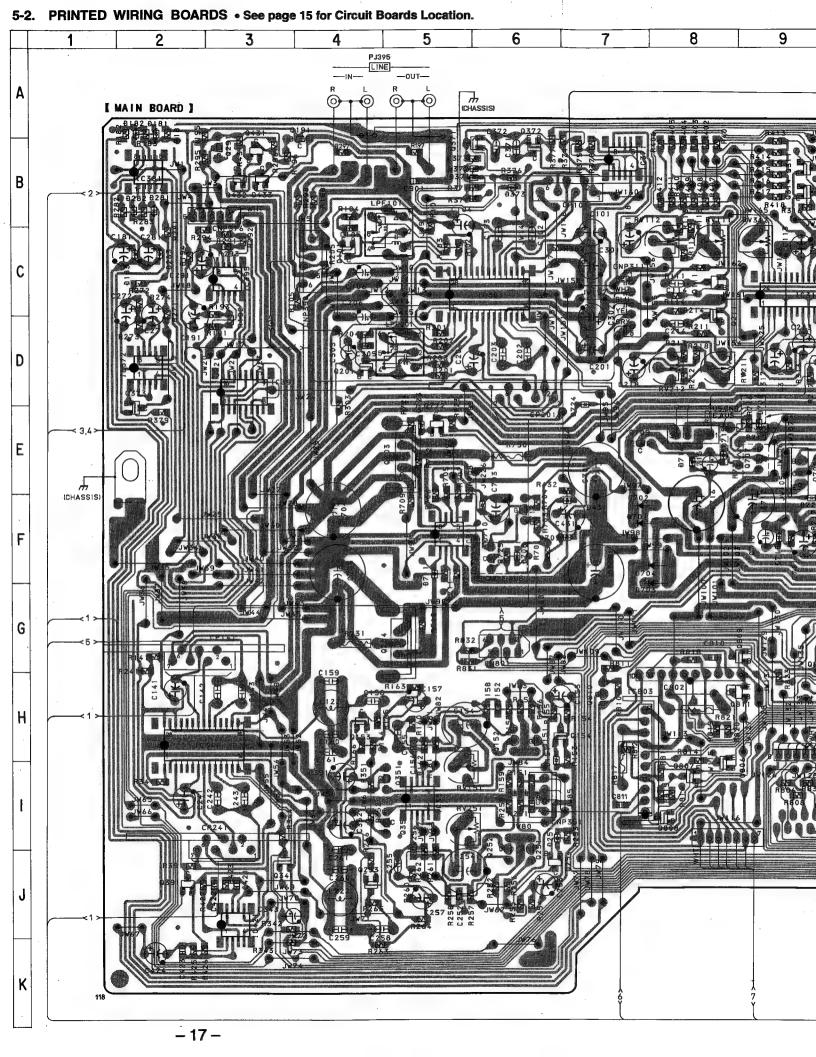
• Circuit Boards Location

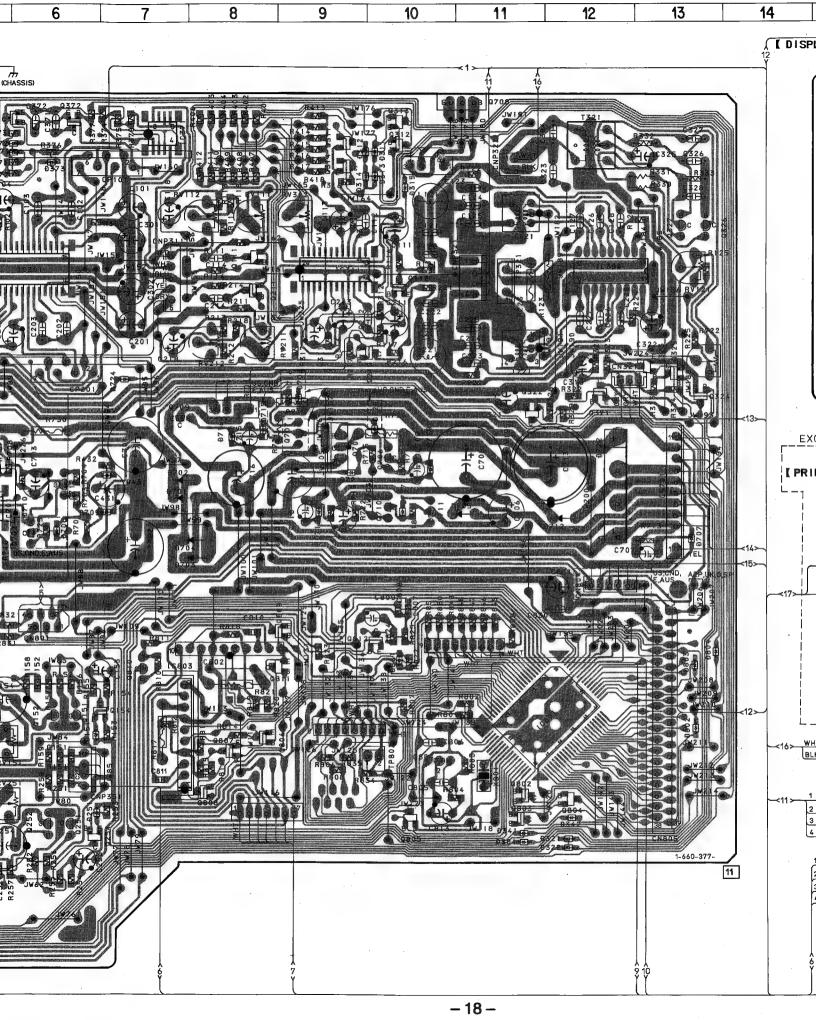


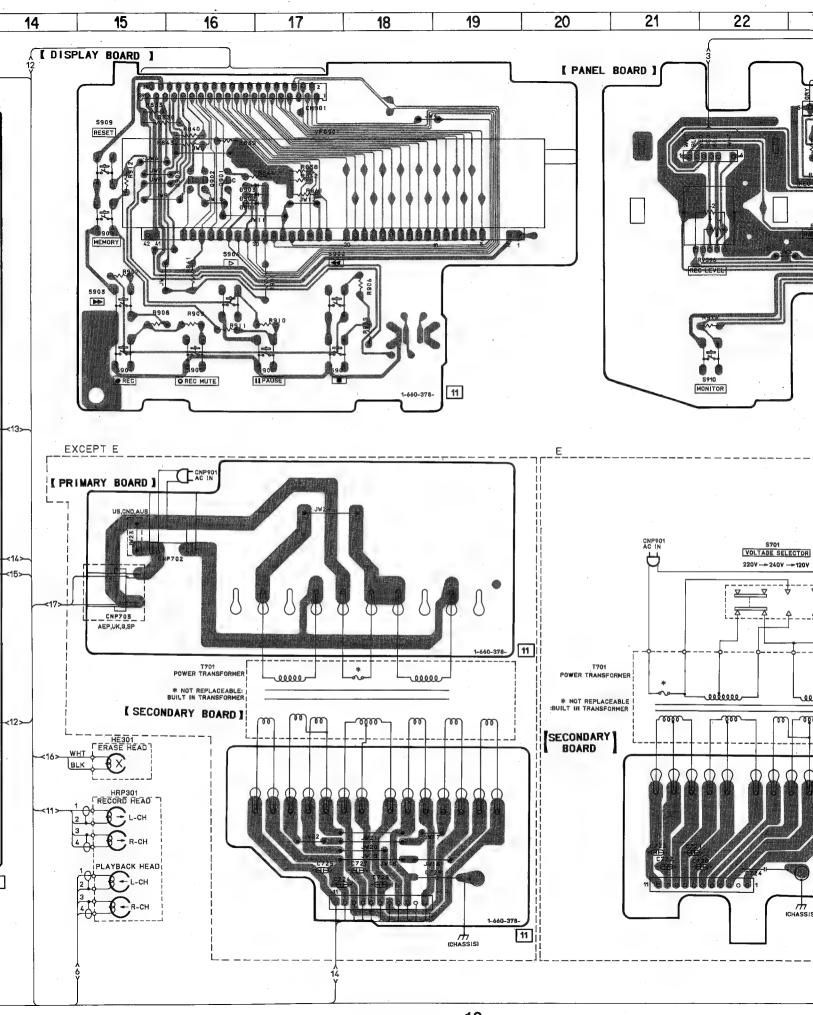
• Semiconductor Location

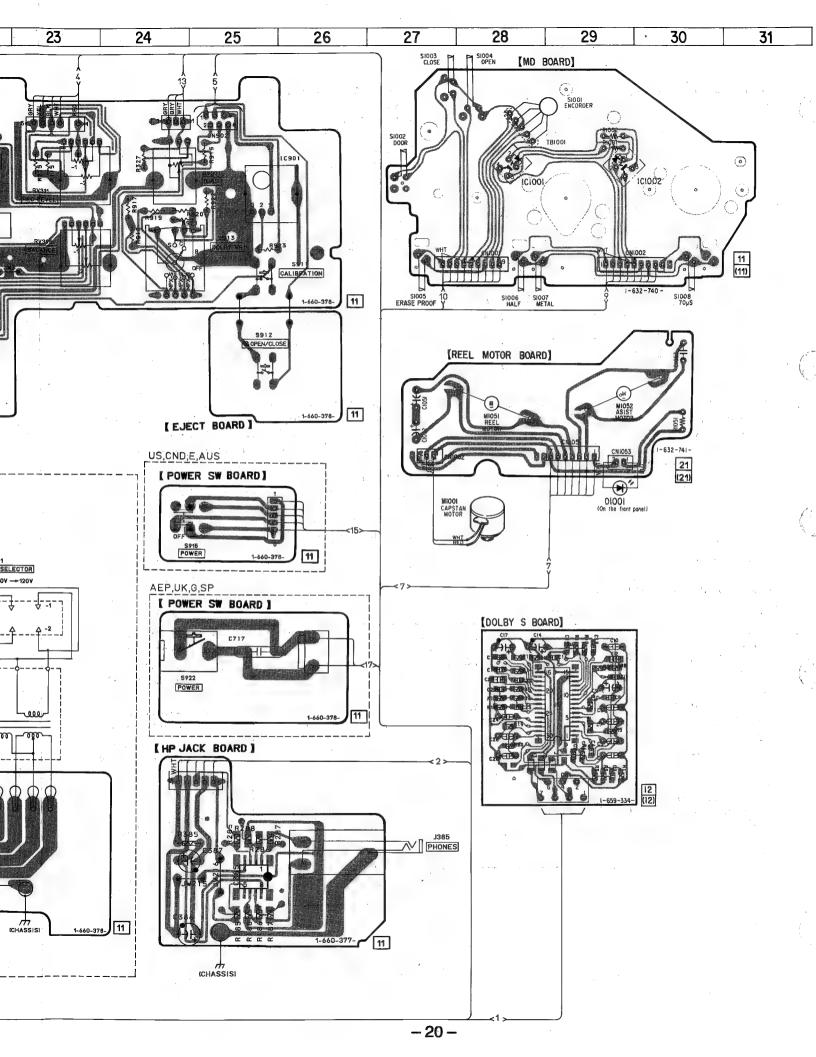
Semico	Location	Ref. No.	Location
D151	H-6	IC803	H-7
D181	A-2	IC804	I-10
D182	A-2	IC901	B-25
D183	C-2	IC1001	B-28
D251	I-6	IC1002	B-29
D281	B-2	0101	C-4
D282 D283	B-2 C-2	Q101 Q111	C-8
D203	J-11	Q112	C-10
D311	B-10	Q151	H-6
D312	B-9	Q152	H-6
D313	B-10	Q153	H-4
D314	B-9	Q154	H-6 A-4
D315 D321	B-10 J-12	Q191 Q201	D-4
D321	J-12 J-12	0211	C-8
D341	J-11	Q212	D-9
D342	J-12	Q251	1-6
D371	B-5	0252	I-6
D372	B-5	Q253	J-4
D373	B-6 F-7	Q254 Q291	J-6 B-3
D431 D701	F-7	Q311	B-9
D701	F-7	Q312	B-10
D703	G-7	Q313	B-10
D704	F-7	Q314	B-9
D705	F-11	Q321	E-12
D706	E-9	Q322	E-11
D707 D708	F-13 F-6	Q323 Q324	D-13 E-13
D708 D709	F-7	Q325	D-13
D710	F-6	Q326	C-13
D711	F-5	Q327	C-13
D712	F-12	Q341	J-3
D715	E-8	Q351	1-5
D716 D717	E-8 F-10	Q352 Q371	I-5 B-5
D717	F-9	Q372	B-6
D719	E-10	Q373	D-2
D720	E-10	Q391	J-2
D721	F-9	Q431	B-3
D722	E-12	Q432	B-3
D723	E-5	Q433	B-3 F-6
D724 D801	D-7 H-10	Q702 Q703	E-5
D802	H-13	Q704	G-5
D803	· H-13	Q705	E-9
D804	H-13	Q706	E-10
D901	B-16	Q707	E-9
D902	B-16	Q708	A-11
D903 D1001	B-16 F-29	Q709 Q710	E-7 F-10
וויייום	1-23	Q711	F-10
IC1	H-29	Q712	F-6
IC301	C-6	Q722	E-5
IC304	C-12	Q802	I-11
IC311	C-9	Q803	I-11
IC341	H-2 I-5	Q804 Q805	I-12 J-10
IC351 IC371	I-э В-7	Q806	J-10 I-8
10371	D-2	Q807	1-8
IC381	B-2	Q808	1-8
IC385	J-25	Q809	G-8
IC391	D-3	Q810	H-7
IC395	C-3	Q811	H-8
IC421	J-3 F-5	Q812 Q901	G-10 B-16
IC701 IC801	H-11	Q902	B-16
IC802	H-8	Q903	B-16
	l <u>.</u>	Ш	<u> </u>

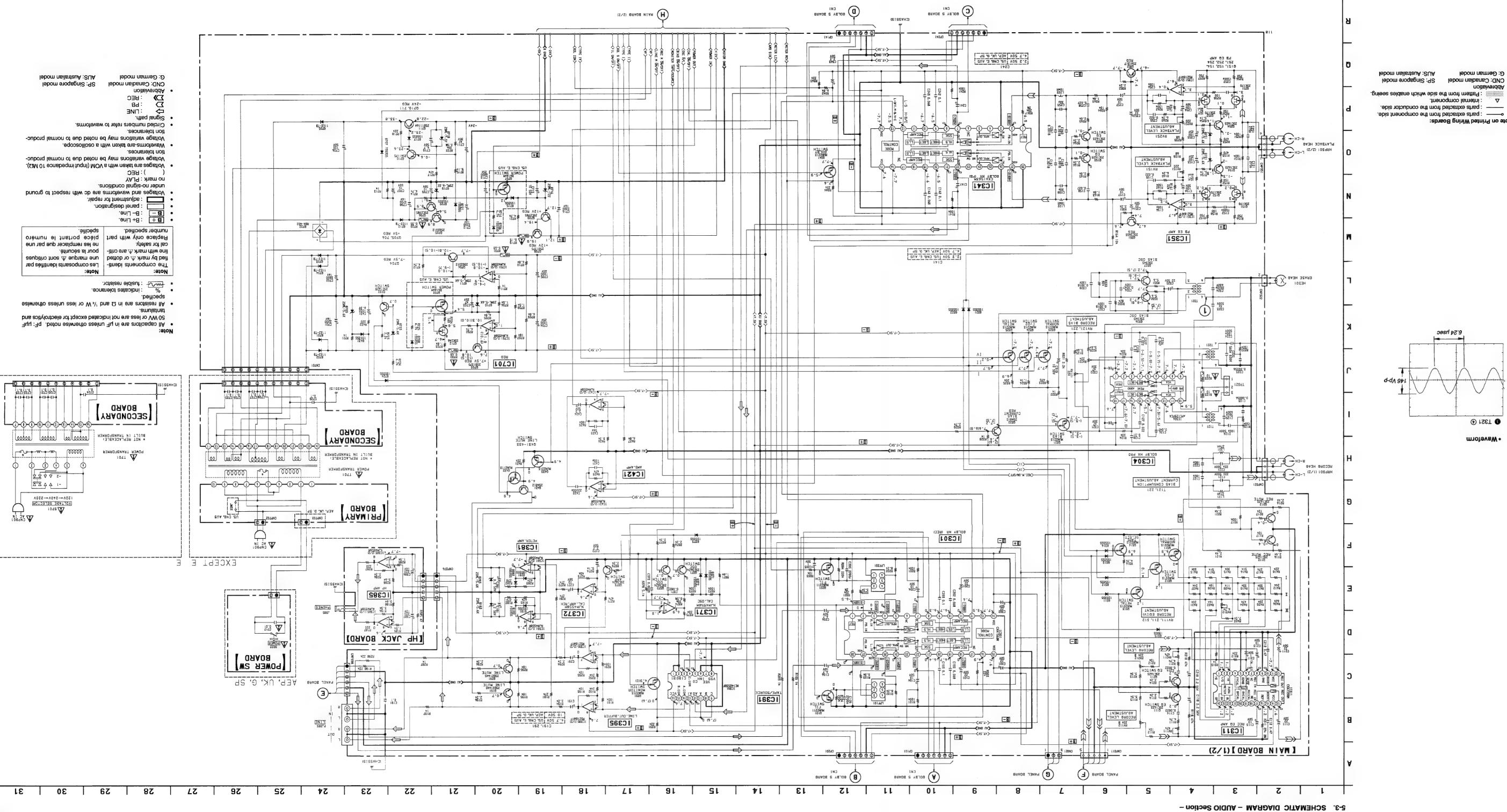












TC-KA2ES/KE600S

 internal component. parts extracted from the component side. Note on Printed Wiring Boards:

CND: Canadian model SP: Singapore model Sattem from the side which enables seeing. parts extracted from the conductor side.

-12-

R923 100

[EJECT BOARD]

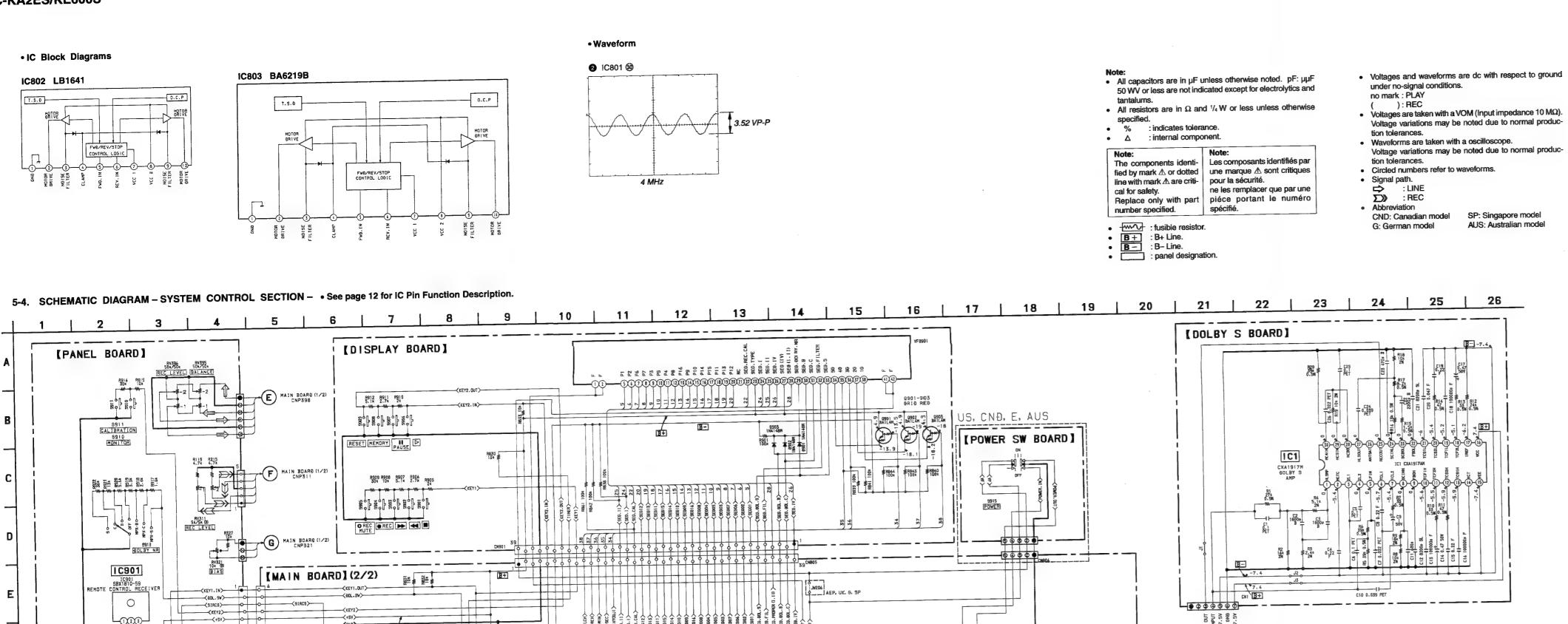
- 25 -

| METER. LCH | MET

REELM. REY

IC801 M38172M4-171FP SYSTEM CONTROL

R846 R847 R848 R848 R850



A B C D

MAIN BOARD (1/2) (CP101) (CP201) (CP241) (CP141)

REC M ON/OFF

MONITOR TAPE/SOURCE BIAS ON/OFF

BOARD

1C1001 6PZ522B SUPPLY REEL ROTATION DET

-27 -

Inch Woten!

SECTION 6 **EXPLODED VIEWS**

• Items marked "*" are not stocked since they

are seldom required for routine service. Some

delay should be anticipated when ordering these

• The mechanical parts with no reference num-

OTE:	
-XX and -X mean standardized parts,	
may have some difference from the origin	nal one.

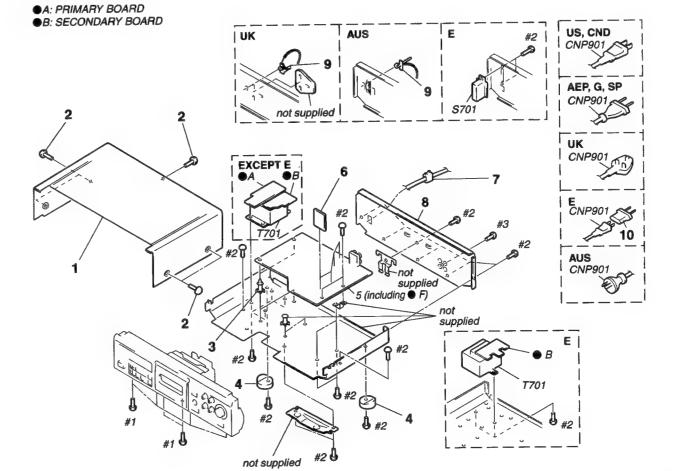
- Color Indication of Appearance Parts Example:
 KNOB, BALANCE (WHITE) . . . (RED)
- Abbreviation
- CND: Canadian G: German
- ber in the exploded views are not supplied. • Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number speci-

Les composants identifiés par une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

(1) CHASSIS SECTION ●A: PRIMARY BOARD

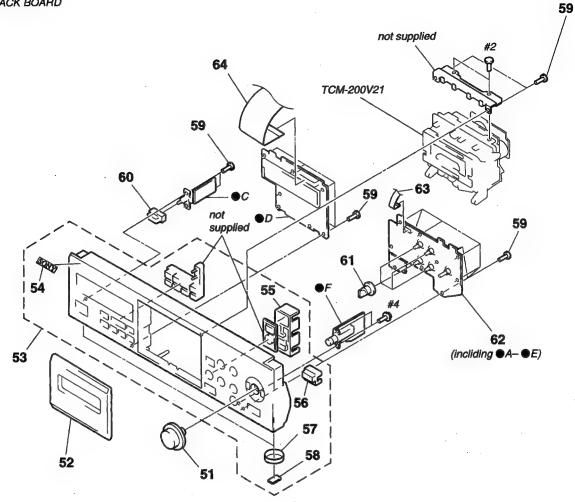
SP: Singapore AUS: Australian



ef. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	2.021-422-01	CASE (410726)		* 8	3-933-308-71	PANEL, BACK (US, CND)	
1		SCREW (CASE) (M3X8)		* 8		PANEL, BACK (AUS)	
2		HOLDER, PC BOARD		ا و		BAND, PLUG FIXED (UK, AUS)	
3			ID)	∆10		ADAPTER, CONVERSION 2P (E)	
4		FOOT ASSY (F50150S)(BLACK)(US, CN	iu)			CORD, POWER (E)	
4	X-494/-20/-1	FOOT ASSY (F50150S)(SILVER)	CD ALIC)	20011 301	1-001-100-00	00110, 1 011211 (2)	
		(AEP, UK, G, E	, SP, AUS)	À CNP901	1-558-945-21	CORD, POWER (POLAR.SPT-1)(US, CNI))
_	A 0007 FOF A	MAIN DOADD COMPLETE (AED HIV G	CD)			CORD, POWER (AEP, G, SP)	•
5	A-2007-535-A	MAIN BOARD, COMPLETE (AEP, UK, G,	, 31)			CORD, POWER (UK)	
5		MAIN BOARD, COMPLETE (E, AUS)				CORD, POWER (AUS)	
5		MAIN BOARD, COMPLETE (US, CND)				SELECTOR, POWER VOLTAGE (E)	
6	A-2007-481-A	DOLBY-S BOARD, COMPLETE		∆S701	1-092-100-11	SELECTOR, FOWER VOLINGE (L)	
7	3-703-244-00	BUSHING (2104), CORD (AEP, UK, G, S	SP, AUS)		500 44	TRANSFORMED DOWED (HE CND)	
				▲T701		TRANSFORMER, POWER (US, CND)	(D)
7	3-703-571-11	BUSHING (S) (4516), CORD (US, CND,	, E)	▲T701		TRANSFORMER, POWER (AEP, UK, G, S	P)
8		PANEL, BACK (AEP, G, SP)		▲T701		TRANSFORMER, POWER (E)	
8		PANEL, BACK (UK)		∆ T701	1-429-656-11	TRANSFORMER, POWER (AUS)	
8		PANEL, BACK (E)					

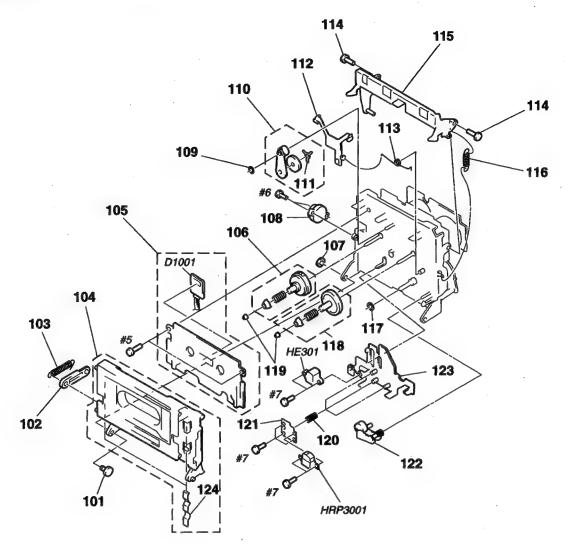
(2) FRONT PANEL SECTION

- ●C: POWER SW BOARD ●D: DISPLAY BOARD ●E: EJECT BOARD ●F: JACK BOARD



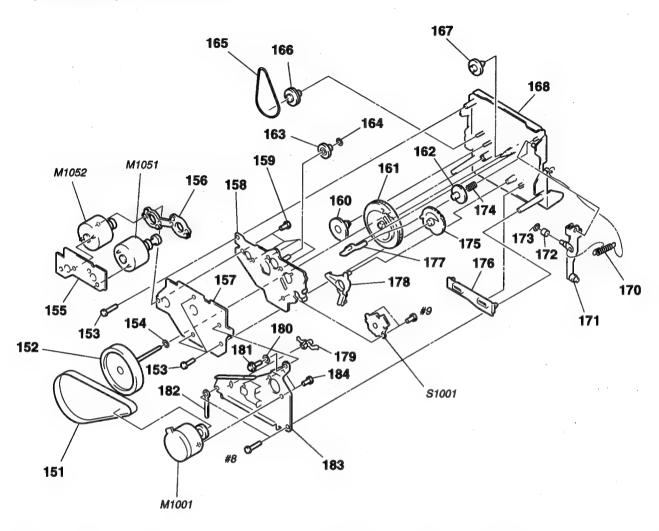
Ref. No.	Part No.	Description	Remark	R	ef. No.	Part No.	Description	Remark
51	3-933-300-11	KNOB (REC)			58	4-977-358-11	CUSHION (8X12.5)	
52		LID ASSY, CASSETTE (AEP, UK, G, E, SP	(AUS)		59	4-951-620-01	SCREW (2.6X8), +BVTP	
52		LID ASSY, CASSETTE (US, CND)	•		60	3-931-429-01	BUTTON (POWER)	
53		PANEL ASSY, FRONT (AEP, UK, G, E, SP,	AUS)		61	3-933-299-01	KNOB (DIA. 12)	
53		PANEL ASSY, FRONT (US, CND)		*	62	A-2007-536-A	PANEL BOARD, COMPLETE (E)	
54	4-963-404-21	EMBLEM (5-A), SONY		*	62	A-2007-538-A	PANEL BOARD, COMPLETE (US, CND, A	AUS)
55	3-933-298-01	BUTTON (C.E)		*	62	A-2007-540-A	PANEL BOARD, COMPLETE (AEP, UK, G	, SP)
56	3-933-296-01	BUTTON (MONITOR)			63	1-777-110-11	WIRE (FLAT TYPE)(6 CORE)	
57	4-977-593-11	RING (DIÀ 50), ORNAMENTAL			64	1-777-109-11	WIRE (FLAT TYPE)(39 CORE)	
		(AEP, UK, G, E,	SP, AUS)					

(3) MECHANISM DECK SECTION-1 (TCM-200V21)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-378-341-01	SHAFT (L) (CASSETTE HOLDER)		115	X-3371-408-1	LEVER (LIFTER) ASSY	
* 102	3-356-717-01	LEVER (JOINT)		116	3-356-625-01	SPRING, TENSION	
103	3-356-626-01	SPRING, TENSION		117	3-356-713-01	WASHER	
104		HOLDER (CD-C) ASSY, CASSETTE		118	X-3356-627-1	GEAR (T) ASSY	
105	X-3371-412-1	PLATE ASSY, ORNAMENTAL		119	3-362-308-01	CAP (REEL)	
106	X-3356-628-1	GEAR (S) ASSY		120	3-356-659-11	SPRING (RPH), COMPRESSION	
107	3-558-708-21	WASHER, STOPPER		121	3-356-742-11	BRACKET (GUIDE R)	
108	3-712-786-01	DAMPER, OIL		122	X-3371-414-1	LEVER (PINCH LEVER T) ASSY	
109	3-669-465-11	WASHER (FR2)		123	X-3371-431-1	SLIDER (HEAD CHASSIS V21M)ASSY	
110	X-3371-411-1	LEVER (FR2) ASSY		124	3-356-691-11	SPRING (CASSETTE)	
111	3-356-644-11	SPRING (FR), LEAF		D1001	8-719-980-85	DIODE SLF-325C	
112		SLIDER (BRAKE)		HE301	1-543-673-11	HEAD, MAGNETIC (ERASE)	
113	3-356-619-01	SPRING (B), TORSION		HRP301	1-543-733-11	HEAD, MAGNETIC (RECORD/PLAYBACK)	
114	3-356-601-11	SCREW, STEP					

(4) MECHANISM DECK SECTION-2 (TCM-200V21)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	3-356-744-01	BELT (CAPSTAN V)		171	X-3371-407-1	LEVER (LOADING) ASSY	
152		FLYWHEEL (R FWD) ASSY		172	3-356-630-01		
153	3-355-801-01	SCREW (BTP 2X18)		173	3-558-708-11		
154	3-356-705-01	WASHER (CAPSTAN)		174	3-356-605-01	SPRING, COMPRESSION	
* 155	1-632-741-21	REEL MOTOR BOARD		175	3-356-616-01	GEAR (LOADING CAM)	
156	3-356-628-11	SPACER (MOTOR)		176	3-356-653-01	SLIDER (PAUSE)	
* 157	1-632-740-11	MD BOARD		177	3-356-617-01	LEVER (SELECTION)	
* 158	X-3371-426-1	BRACKET (MOTOR RM) ASSY		178	3-356-613-01	LEVER (MODE)	
159	3-363-804-01	SCREW (+P 2.6X6.5)		179	3-575-321-00	RETAINER, THRUST, CAPSTAN	
160	3-356-606-01	GEAR (MODE)		* 180	3-356-718-01	SPACER (THRUST RETAINER R)	
161	3-356-747-01	GEAR (MODE CAM C)		181	3-356-707-01	SCREW (+PTPWH 2X25)	
. 162	3-356-609-01	GEAR (LOADING)		182	3-703-397-01	STOPPER, WIRING	
163	3-356-702-11	GEAR (COMMUNICATION B)		183	3-356-629-31	BRACKET (THRUST RETAINER R)	
164	3-669-465-01	WASHER (1.5), STOPPER		184	4-885-599-00	SCREW, FITTING, REINFORCEMENT	
165	3-356-603-01	BELT (MODE)		M1001	X-3371-423-1	MOTOR (CAPSTAN V21M) ASSY	
166	3-356-607-01	PULLEY (MODE)		M1051	X-3371-429-1	MOTOR (REEL RM) ASSY	
167	3-356-703-01	GEAR (COMMUNICATION C)		M1052	X-3371-428-1	MOTOR (ASSIST) ASSY	
168	X-3371-417-1	CHASSIS (V21M) COMPLETE ASSY		S1001	1-466-238-11	ENCODER, ROTARY	
170	3-356-624-01	SPRING, TENSION	1				

DOLBY S

MAIN

HP JACK

SECTION 7 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
 All resistors are in ohms.
 METAL: Metal-film resistor.
 METAL OXIDE: Metal oxide-film resistor.
 F; nonflammable
- Abbreviation

CND: Canadian SP: : Singapore G: German AUS: Australian

- Items marked "*" are not stocked since they are seldom required for routine service.
 Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS

In each case, u: µ, for example:

 $\begin{array}{lll} uA. & : \mu A. \, . \\ uPB. & : \mu PB. \, . \end{array}$

uPA. . : μPA. .

PB. . : μPB. . uPC. . : μPC. .

 $uPD...: \mu PD...$

- CAPACITORS uF: μF
- COILS uH: μH

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.

sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
*	A-2007-481-A	DOLBY S BOARD	. COMPLETE			İ		< CHIP CONDUCTO	R >		
	7. 2001	******	*								
						J1		CONDUCTOR, CHIP			
		< CAPACITOR >				J2	1-216-296-00	CONDUCTOR, CHIP	(3216)		
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				J3	1-216-296-00	CONDUCTOR, CHIP	(3216)		
C1	1-136-165-00	FILM	0.1uF	5%	50V						
C2		CERAMIC CHIP	0.0018uF	10%	50V			< RESISTOR >			
C3	1-163-012-00	CERAMIC CHIP	0.0018uF	10%	50V						
· C4		CERAMIC CHIP	0.22uF		25V	R1	1-216-685-11	METAL CHIP	27K	0.5%	1/1 0W
C5	1-136-165-00		0.1uF	5%	50V	R2	1-208-811-11	METAL CHIP	16K	2%	1/10W
	1 100 100 00					R3	1-208-791-11	METAL CHIP	2.4K	2%	1/10W
C6	1-136-165-00	FII M	0.1uF	5%	50V	R4	1-208-799-11	METAL CHIP	5.1K	2%	1/10W
C7	1-137-372-11		0.022uF	5%	50V	R5	1-216-689-11	METAL CHIP	39K	0.5%	1/1 0W
C8		CERAMIC CHIP	0.22uF	0,0	25V						
C9	1-126-301-11		1uF	20%	50V	R6	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
	1-137-442-11		0.039uF	5%	50V	R7	1-216-615-11		33	0.5%	1/10W
C10	1-13/-442-11	FILIVI	0.035ui	J /6	304	R8	1-208-462-41		10K	2%	1/10W
044	4 400 007 44	OFDAMIO CHID	COODE	100/	50V	R9	1-208-812-11		18K	2%	1/10W
C11		CERAMIC CHIP	680PF	10%		R10	1-216-615-11		33	0.5%	1/10W
C12		CERAMIC CHIP	0.0082uF	5%	50V	niu	1-210-013-11	WEIAL OTH	00	0.570	171044
C13		CERAMIC CHIP	0.1uF		25V	544	4 040 040 44	METAL CUID	47	0.5%	1/10W
C14	1-124-465-00		0.47uF	20%	50V	R11	1-216-619-11				1/10W
C15	1-164-222-11	CERAMIC CHIP	0.22uF		25V	R12	1-216-684-11		24K	0.5%	1/10W
						R13	1-216-615-11		33	0.5%	
C16	1-163-038-00	CERAMIC CHIP	0.1uF		25V	R14	1-216-619-11	***************************************	47	0.5%	1/10W
C17	1-124-465-00	ELECT	0.47uF	20%	50V	R15	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
C18	1-163-038-00	CERAMIC CHIP	0.1uF		25V						
C19	1-164-222-11	CERAMIC CHIP	0.22uF		25V	R16	1-216-678-11		13K	0.5%	1/10W
C20	1-163-035-00	CERAMIC CHIP	0.047uF		50V	R17	1-216-673-11		8.2K	0.5%	1/10W
						R18	1-208-462-41	METAL CHIP	10K	2%	1/10W
C21	1-164-717-11	CERAMIC CHIP	0.0082uF	5%	50V	R19	1-208-462-41	METAL CHIP	10K	2%	1/10W
C22		CERAMIC CHIP	0.0022uF	10%	100V	R20	1-216-689-11		39K	0.5%	1/10W
C23	1-163-005-11		470PF	10%	50V	*****	******	*******	*****	******	****
C24	1-137-442-11		0.039uF	5%	50V						
C25	1-136-165-00		0.1uF	5%	50V	*	A-2007-539-A	MAIN BOARD, COM	APLETE (I	JS, CND)	
023	1-130-103-00	/ (Liv)	0.101	0,70	331	*		MAIN BOARD, COM			, SP)
C26	1-137-372-11	CII BA	0.022uF	5%	50V	*		MAIN BOARD, COM			•
020	1-131-312-11	FILIVI	U.UZZUI	370	301			*****			
		< CONNECTOR >									
		COMMEDICITY						HP JACK, BOARD			
CNII	1 605-002-11	SOCKET, CONNE	CTOR 7P					********			
CN1	1-020-022-11	SOURLI, CONNE	VIVIII/F								
٠,		.10 -				*	1-537-770-11	TERMINAL BOARD	. GROUNI)	
		< IC >						HOLDER (TR)	,	-	
	0.750.077.05	IO OVA4047414	Te			1		SCREW +BVTT 3	(8) (8)		
IC1	8-752-077-95	IC CXA1917AM	-10			*	3-356-925-01		(0)		
					-	1 *	J-JJU-32J-01	HEAT OWN			

Re	ef. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
			< CAPACITOR >				C157	1-126-964-11	ELECT	10uF	20% (US. CN	50V D, E, AUS)
	C101	1-126-965-11	ELECT	22uF	20% (US. CN	50V D, E, AUS)	C157	1-124-721-71	ELECT	10uF	20%	50V UK, G, SP)
	C101	1-126-049-11	ELECT	22uF	20%	50V UK, G, SP)	C158 C159	1-136-158-00 1-102-518-11		0.027uF 33PF	5% 5%	50V 50V
	C102 C103	1-136-495-11 1-136-165-00		0.068uF 0.1uF	5% 5%	50V 50V	C160	1-137-434-11		0.0018uF	5%	50V
	C104	1-126-964-11		10uF	20%	50V D, E, AUS)	C161 C181	1-137-434-11 1-124-925-11		0.0018uF 2.2uF	5% 20%	50V 100V
	C104	1-124-721-71	ELECT	10uF	20%	50V	C191	1-126-963-11		4.7uF	20%	50V D, E, AUS)
			CERAMIC CHIP	0.0027uF		UK, G, SP) 50V	C191	1-124-721-71	ELECT	10uF	20%	50V UK, G, SP)
	C105 C106	1-126-963-11		4.7uF	20%	50V D, E, AUS)	C201	1-126-965-11	ELECT	22uF	20%	50V D, E, AUS)
•	C106	1-124-720-11	ELECT	4.7uF	20%	50V UK, G, SP)	C201	1-126-049-11	ELECT	22uF	20%	50V
	C111	1-126-965-11	ELECT	22uF	20%	50V D, E, AUS)	C202	1-136-495-11	FILM	0.068uF	(AEP, 5%	UK, G, SP) 50V
	C111	1-126-049-11	FLECT	22uF	20%	50V	C203 C204	1-136-165-00 1-126-964-11		0.1uF 10uF	5% 20%	50V 50V
	C112	1-136-173-00		0.47uF		UK, G, SP) 50V	C204	1-124-721-71		10uF		D, E, AUS) 50V
	C113 C114	1-126-964-11 1-137-366-11	ELECT	10uF 0.0022uF	20% 5%	50V 50V	0201		that that the tar 1	1001		UK, G, SP)
	C118	1-124-902-00		0.47uF	20%	100V D, E, AUS)	C205 C206	1-163-014-00 1-126-963-11	CERAMIC CHIP ELECT	0.0027uF 4.7uF	5% 20%	50V 50V D, E, AUS)
	C118	1-126-043-11	ELECT	0.47uF	20% (AFP I	50V UK, G, SP)	C206	1-124-720-11	ELECT	4.7uF	20%	50V UK, G, SP)
	C121 C122	1-107-597-11 1-137-428-11		22PF 180PF	5% 5%	500V 50V	C211	1-126-965-11	ELECT	22uF	20%	50V D, E, AUS)
	C123 C124	1-137-431-11 1-101-810-00	FILM	560PF 100PF	5% 5%	50V 500V	C211	1-126-049-11	ELECT	22uF	20%	50V UK, G, SP)
	C125	1-136-803-11		560PF	5%	630V	C212	1-136-173-00		0.47uF	5%	50V
	C126 C127	1-136-161-00 1-136-157-00		0.047uF 0.022uF	5% 5%	50V 50V	C213 C214	1-126-964-11 1-137-366-11		10uF 0.0022uF	20% 5%	50V 50V
	C128	1-136-153-00		0.01uF	5%	50V	C218	1-124-902-00		0.47uF	20%	100V
	C141	1-124-925-11	ELECT	2.2uF	20% (US, CN	50V D, E, AUS)	C218	1-126-045-11	ELECT	2.2uF	20%	D, E, AUS) 50V
	C141	1-124-720-11	ELECT	4.7uF	20%	50V	0004	4 407 507 44	OCDANAO	0005		UK, G, SP)
	C142	1-136-165-00	FILM	0.1uF	5%	UK, G, SP) 50V	C221 C222	1-107-597-11 1-137 - 428-11		22PF 180PF	5% 5%	500V 50V
	C143	1-136-495-11		0.068uF	5%	50V	C223	1-137-431-11		560PF	5%	50V
	C151		CERAMIC CHIP	270PF	5%	50V	C224	1-101-810-00	CERAMIC	100PF	5%	500V
	C152	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V	C225	1-136-803-11	FILM	560PF	5%	630V
	C153	1-104-665-11	ELECT	100uF	20%	25V	C226	1-136-161-00		0.047uF	5%	50V
	C154	1-126-968-11	ELECT	100uF	20%	50V	C227	1-136-157-00		0.022uF	5%	50V
	C154	1-126-052-11	ELECT	100uF	20%	D, E, AUS) 50V UK, G, SP)	C228 C241	1-136-153-00 1-124-925-11		0.01uF 2.2uF	5% 20% (US_CN	50V 50V D, E, AUS)
	C155 C156	1-136-157-00 1-163-117-00	FILM CERAMIC CHIP	0.022uF 100PF	5% 5%	50V 50V	C241	1-124-720-11	ELECT	4.7uF	20%	50V UK, G, SP)

MAIN HP JACK

					_						
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C242	1-136-165-00		0.1uF	5%	50V	C352	1-126-965-11	ELECT	22uF	20%	50V
C243		FILM	0.068uF	5%	50V						D, E, AUS)
C251		CERAMIC CHIP	270PF	5%	50V	C352	1-126-049-11	ELECT	22uF	20%	50V
C252		CERAMIC CHIP	0.0015uF	5%	50V					(AEP,	UK, G, SP)
C253	1-104-665-11	ELECT	100uF	20%	25V						
						C371	1-130-494-11		0.082uF	5%	50V
C254	1-126-968-11	ELECT	100uF	20%	50V	C372	1-137-436-11		0.0039uF	5%	50V
					D, E, AUS)	C386	1-126-923-11		220uF	20%	10V
C254	1-126-052-11	ELECT	100uF	20%	50V	C387	1-126-923-11		220uF	20%	10V
0055	4 400 457 00	FU.84	0.000 5		JK, G, SP)	C421	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C255	1-136-157-00		0.022uF	5%	50V	0400	4 400 000 04	OFDAMIO OUID	0.000		501/
C256		CERAMIC CHIP	100PF	5%	50V	C422		CERAMIC CHIP	0.022uF	E0/	50V 50V
C257	1-126-964-11	ELECT	10uF	20%	50V	C423	1-103-111-00	CERAMIC CHIP	56PF 2.2uF	5% 20%	100V
				(US, CIVI	D, E, AUS)	C424	1-124-925-11		2.2ur 1000uF	20%	6.3V
0057	1 104 701 71	FLECT	10uF	20%	50V	C431 C701	1-126-768-11		2200uF	20%	16V
C257	1-124-721-71	ELECT	TOUP		JK, G, SP)	6701	1-120-700-11	ELECT	2200ur		D, E, AUS)
0050	1-136-158-00	EII AA	0.027uF	5%	50V					(03, 014	D, E, A00)
C258 C259	1-102-518-11		33PF	5%	50V 50V	C701	1-124-556-11	FLECT	2200uF	20%	16V
C260	1-102-516-11		0.0018uF	5%	50V	0701	1-124-550-11	LLLOI	ZZOOUI		UK, G, SP)
C261	1-137-434-11		0.0018uF	5%	50V	C702	1-126-936-11	FLECT	3300uF	20%	16V
0201	1-107-404-11	LICIVI	0.001001	570	301	0702	1-120-300-11	LLLOI	000001		D, E, AUS)
C271	1-126-964-11	ELECT	10uF	20%	50V	C702	1-126-015-11	FLECT	3300uF	20%	16V
C272	1-124-925-11		2.2uF	20%	100V	0102	1 120 010 11	LLLOI	ooooui		UK, G, SP)
C281	1-124-925-11		2.2uF	20%	100V	C703	1-104-664-11	FLECT	47uF	20%	25V
C291	1-126-963-11		4.7uF	20%	50V	0,00					D, E, AUS)
0201	1 120 000 11	ELEO!	117 (11		D, E, AUS)	C703	1-124-910-11	ELECT	47uF	20%	50V
C291	1-124-721-71	ELECT	10uF	20%	50V						UK, G, SP)
0201					UK, G, SP)					(1	,,,
				,	, , , , ,	C704	1-126-027-11	ELECT	1000uF	20%	25V
C301	1-126-965-11	ELECT	22uF	20%	50V	C705	1-126-027-11	ELECT	1000uF	20%	25V
				(US, CN	D, E, AUS)	C706	1-126-968-11	ELECT	100uF	20%	50V
C301	1-126-049-11	ELECT	22uF	20%	50V	C707	1-126-964-11	ELECT	10uF	20%	50V
				(AEP,	UK, G, SP)	C708	1-126-937-11	ELECT	4700uF	20%	16V
C302	1-126-965-11	ELECT	22uF	20%	50V						
				(US, CN	D, E, AUS)	C709	1-126-964-11		10uF	20%	50V
C302	1-126-049-11	ELECT	22uF	20%	50V	C710	1-126-963-11		4.7uF	20%	50V
					UK, G, SP)	C711	1-126-967-11		47uF	20%	35V
C303	1-124-903-11	ELECT	1uF	20%	50V	C712	1-126-927-11		2200uF	20%	10V
			=			C713	1-126-946-11	ELECT	6800uF	20%	25V
C311	1-124-903-11		1uF	20%	50V				40.		
C319	1-126-964-11		10uF	20%	50V	C715	1-126-964-11		10uF	20%	50V
C321	1-126-967-11		47uF	20%	35V	C716	1-126-768-11		2200uF	20%	16V
C322	1-126-967-11		47uF	20%	35V	C805	1-136-165-00		0.1uF	5%	50V
C323	1-107-584-11	CERAMIC	4PF	0.25PF	500V	C806	1-136-165-00		0.1uF	5%	50V
0004	4 400 550 44	FILM	٥ ٥٥٥٥٠	F0/	0001	C807	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C324	1-136-558-11		0.0039uF	5%	630V	0000	1_162_022_04	CERAMIC CHIP	0.022uF		50V
C325	1-126-965-11		22uF	20%	50V	C808				20%	50V 50V
C326	1-106-359-00		4700PF	5%	200V	C809	1-124-902-00	CERAMIC CHIP	0.47uF 0.1uF	2070	50V 50V
C327	1-106-349-00		0.0018uF	5% 5%	100V 100V	C810 C811		CERAMIC CHIP	0.1uF		50V 50V
C328	1-106-349-00	IVITLAN	0.0018uF	5%	1004	C813	1-103-319-11		0.1uF 0.47uF	20%	50V 50V
C343	1-124-925-11	FLECT	2.2uF	20%	10 0 V	0013	1-124-202-00	LLLUI	0.47 UI	£U /0	JU V
C351	1-124-925-11		2.2uF 22uF	20%	50V	C830	1-136-165-00	FILM	0.1uF	5%	50V
0001	1-120-300-1-1	LLLUI	LLUI		D, E, AUS)	C831	1-126-933-11		100uF	20%	10V
C351	1-126-049-11	FLECT	22uF	20%	50V	C901		CERAMIC CHIP	0.1uF	2070	50V
5001	. 120 070 11				UK, G, SP)		. 100 010 11	-210 11110 01111			
				/ 1 ·	, -, -,	1					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		· CONNECTOD ·	. ——	D709	9 710 010 12	DIODE ZSML-5.6X-T1	
		< CONNECTOR >		D709 D710		DIODE ZSML-5.6X-11	
011004	4 500 400 44	DIN CONNECTOR OR					
		PIN, CONNECTOR 3P		D711		DIODE ZSML-5.6X-T1	
		PIN, CONNECTOR (PC BOARD) 10P		D712		DIODE 10E2	
		CONNECTOR, FFC/FPC 6P		D715	8-/19-988-62	DIODE 1SS355 (US, CND, E, AUS)	
		PIN, CONNECTOR 5P (US, CND, E, AUS)				
CN805	1-778-065-11	SOCKET, CONNECTOR 39P		D716		DIODE ZSML-12Z-T1	
				D717		DIODE 1SS355	
CNP311	1-764-328-11	PIN, CONNECTOR (PCB)(V TYPE)5P		D718	8-719-019-25	DIODE ZSML-7.5Y-T1	
* CNP321	1-560-062-00	PIN, CONNECTOR 4P		D719	8-719-019-18	DIODE ZSML-6.2Z-T1	
* CNP322	1-560-060-00	PIN, CONNECTOR 2P		D720	8-719-988-62	DIODE 1SS355 (US, CND, E, AUS)	
		PIN, CONNECTOR 4P					
		PIN, CONNECTOR 5P		D721	8-719-988-62	DIODE 1SS355	
0.00	1 000 001 11	ini, comization		D722		DIODE RBA-402-SL	
* CNP308	1-601-462-11	PIN, CONNECTOR (PC BOARD) 6P		D723		DIODE ZSML-5.6X-T1	
		PIN, CONNECTOR (PC BOARD) 7P		D724		DIODE 1SS355	
		PIN, CONNECTOR (PC BOARD) 7P		D801	0-719-900-02	DIODE 1SS355	
		PIN, CONNECTOR (PC BOARD) 7P					
CP241	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P		D802		DIODE 1SS355	
				D803		DIODE 1SS355	
		< DIODE >		D804	8-719-988-62	DIODE 188355	
				c .			
D151	8-719-019-12	DIODE ZSML-5.6X-T1				<10>	
D181	8-719-988-62	DIODE 1SS355					
D182		DIODE 1SS355		IC301	8-752-066-36	IC CXA1563M	
D183		DIODE ZSML-5.6X-T1		IC304		IC uPC1297CA	
D251		DIODE ZSML-5.6X-T1		IC311		IC CXA1598M	
0231	0-713-013-12	DIODE ZOME-S.OX-11		IC341		IC CXA1563M	
D001	0.710.000.00	DIODE 1000EE					
D281		DIODE 1SS355		IC351	8-709-030-00	IC M5218AFP	
D282		DIODE 1SS355		10074	0 750 400 00	10 80155000	
D283		DIODE ZSML-5.6X-T1		IC371		IC uPC4558G2	
D301		DIODE 1SS355		IC372		IC uPC4558G2	
D311	8-719-988-62	DIODE 1SS355		IC381		IC uPC4558G2	
				IC385	8-759-100-96	IC uPC4558G2	
D312	8-719-988-62	DIODE 1SS355		IC391	8-759-300-71	IC HD14053BFP	
D313	8-719-988-62	DIODE 1SS355					
D314	8-719-988-62	DIODE 1SS355		IC395	8-759-636-55	IC M5218AFP	
D315		DIODE 1SS355		IC421		IC uPC4558G2	
D321		DIODE 1SS355		IC701		IC uPC4558G2	
D021	0 / 13 300 02	DIODE TOUGHT		IC801		IC M38172M4-171FP	
D322	0.710.000.63	DIODE 1SS355		1C802	8-759-822-09		
				10002	0-703-022-03	IC E01041	
D341		DIODE 1SS355		10000	0.750.070.05	10 0400400	
D342		DIODE 188355		IC803	8-759-973-95		
D371		DIODE 1SS355		IC804	8-759-165-82	IC PST600E-T	
D372	8-719-988-62	DIODE 1SS355					
						< JACK >	
D373		DIODE 1SS355					
D431	8-719-988-62	DIODE 1SS355		J385	1-568-519-41	JACK, LARGE TYPE (PHONES)	
D701	8-719-200-02	DIODE 10E2				*	
D702		DIODE 10E2				< COIL >	
D703		DIODE 10E2					
2100	5 1 . 5 E 0 0 DE			L121	1-410-780-11	INDUCTOR 27mH	
D704	8-719-200-02	DIODE 10E2		L122	1-410-778-11		
		DIODE 10E2		L221	1-410-770-11		
D705				l .			
D706		DIODE 188355 (US, CND, E, AUS)		L222	1-410-778-11	INDUCTOR 18mH	
D707		DIODE 1SS355					
D708	8-719-988-62	DIODE 1SS355 (US, CND, E, AUS)					

MAIN HP JACK

										_
Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description			Remark
		< LOW-PASS F	ILTER >		Q705	8-729-209-15	TRANSISTOR	2SD2012		
					Q706		TRANSISTOR			
LPF101	1-236-147-11	FILTER, LOW-I	PASS		Q707	8-729-900-80	TRANSISTOR	DTC114ES(US,	CND, E,	AUS)
LPF201	1-236-147-11	FILTER, LOW-F	PASS		Q708	8-729-141-83	TRANSISTOR	2SB1094-LK		
					Q709	8-729-119-78	TRANSISTOR	2SC2785-HFE		
		< JACK >								
					Q710		TRANSISTOR			
PJ395	1-770-614-12	JACK, PIN 4P	(LINE IN/OUT)		Q711		TRANSISTOR			
					Q712	8-729-224-63				
		< TRANSISTOR	₹>		Q722			2SC1623-L5L6		
					Q802	8-729-421-19	TRANSISTOR	UN2213		
Q101		TRANSISTOR								
Q111			2SC1623-L5L6		Q803		TRANSISTOR			
Q112			2SC1623-L5L6		Q804		TRANSISTOR			
Q151		TRANSISTOR			Q805	8-729-421-19				
Q152	8-729-217-03	TRANSISTOR	2SK170		Q806	8-729-421-22				
			0004000 1710		Q807	8-729-421-22	TRANSISTOR	UN2211		
Q153			2SC1623-L5L6		0000	0.700.404.00	TDANICICTOR	11110011		
Q154			2SC1623-L5L6		Q808		TRANSISTOR			
Q191		TRANSISTOR			Q809		TRANSISTOR			
Q201		TRANSISTOR			Q810	8-729-801-84				
Q211	8-729-120-28	TRANSISTOR	2SC1623-L5L6		Q811	8-729-421-22				
0010	0.700.400.00	TDANCICTOD	0004000 510		Q812	8-729-210-22	TRANSISTOR	25A1102-G		
Q212		TRANSISTOR	2SC1623-L5L6				< RESISTOR >			
Q251 Q252		TRANSISTOR					< uEgigiou >			
			2SC1623-L5L6		R101	1-216-097-00	METAL CHID	100K	5%	1/10W
Q253 Q254			2SC1623-L5L6		R101	1-216-037-00		8.2K	5%	1/10W
U254	0-129-120-20	INANSISTUN	250 1023-L3L0		R102	1-216-061-00		3.3K	5%	1/10W
0001	0 700 000 07	TRANSICTOR	00001440		R103	1-216-105-00		220K	5%	1/10W
Q291		TRANSISTOR TRANSISTOR			R104	1-216-103-00		1K	5%	1/10W
Q311 Q312		TRANSISTOR			niua	1-210-049-00	WE ME ONE	IIX	J 70	17 10 44
Q312		TRANSISTOR			R111	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
Q314		TRANSISTOR			R112	1-216-073-00		10K	5%	1/10W
U314	0-125-421-15	INANSISTON	UNZZIO		R113	1-216-061-00		3.3K	5%	1/10W
Q321	8-720-421-19	TRANSISTOR	HN2213		R114	1-216-057-00		2.2K	5%	1/10W
Q322		TRANSISTOR			R116	1-216-058-00		2.4K	5%	1/10W
Q323		TRANSISTOR			11.10	1 210 000 00	INC IAC OIL	2.414	0 //	171011
Q324		TRANSISTOR			R116	1-216-058-00	METAL CHIP	2.4K	5%	1/10W
Q325		TRANSISTOR			R117	1-216-073-00		10K	5%	1/10W
doro	0 120 421 10	11111110101011	ONEE TO		R118	1-216-089-00		47K	5%	1/10W
Q326	8-729-194-57	TRANSISTOR	2SC945-P		R121	1-216-058-00		2.4K	5%	1/10W
Q327		TRANSISTOR			R122	1-216-101-00		150K	5%	1/10W
Q341		TRANSISTOR								
Q351		TRANSISTOR			⚠R123	1-219-153-11	FUSIBLE	10	5%	1/4W F
Q352			2SA1317-STU		R124	1-216-085-00		33K	5%	1/10W
GOOL	0 / 20 02 : 0 :	1111111010101	LOWING IT OTO		R125	1-216-067-00		5.6K	5%	1/10W
Q371	8-729-107-43	TRANSISTOR	2SC3624-L18		R141	1-216-097-00		100K	5%	1/10W
Q372		TRANSISTOR			R151	1-216-097-00		100K	5%	1/10W
Q373		TRANSISTOR								
Q391		TRANSISTOR			R152	1-216-029-00	METAL CHIP	150	5%	1/10W
Q431		TRANSISTOR			R153	1-216-041-00		470	5%	1/10W
W-101	J I LO LIO LL				R154	1-216-066-00		5.1K		1/10W
Q432	8-729-901-06	TRANSISTOR	DTA144EK		R155	1-216-066-00		5.1K	5%	1/10W
Q433		TRANSISTOR			R156	1-216-046-00		750	5%	1/10W
Q702			DTC114ES (US, CND, E,	AUS)						
Q703		TRANSISTOR			R157	1-216-046-00	METAL CHIP	750	5%	1/10W
Q704		TRANSISTOR			R158	1-216-025-00		100	5%	1/10W
W10-1	5 1 E 0 E 0 0 10									

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R159	1-216-021-00	METAL CHIP	68	5%	1/10W	R258	1-216-025-00	METAL CHIP	100	5%	1/10W
R160	1-216-068-00	METAL CHIP	6.2K	5%	1/10W	R259	1-216-021-00	METAL CHIP	68	5%	1/10W
R161	1-216-081-00	METAL CHIP	22K	5%	1/10W	R260	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
						R261	1-216-081-00	METAL CHIP	22K	5%	1/10W
R162	1-216-100-00	METAL CHIP	130K	5%	1/1 0W	R262	1-216-100-00	METAL CHIP	130K	5%	1/10W
R163	1-216-055-00		1.8K	5%	1/10W						
R164	1-216-073-00		10K	5%	1/10W	R263	1-216-055+00	METAL CHIP	1.8K	5%	1/10W
R165	1-216-056-00		2K	5%	1/10W	R264	1-216-073-00		10K	5%	1/10W
R166	1-216-057-00		2.2K	5%	1/10W	R265	1-216-056-00		2K	5%	1/10W
11100	1 210 001 00	MICHIE OIL		0.0		R266	1-216-057-00		2.2K	5%	1/10W
R181	1-216-083-00	METAL CHIP	27K	5%	1/10W	R271	1-216-089-00		47K	5%	1/10W
R182	1-216-035-00		270	5%	1/10W	11271	1 210 000 00	METAL OTH	4716	0 / 0	1, 1011
	1-216-033-00		62K	5%	1/10W	R272	1-216-083-00	METAL CHID	27K	5%	1/10W
R183							1-216-088-00		43K	5%	1/10W
R185	1-216-053-00		1.5K	5% 5%	1/10W	R273 R274	1-216-066-00		5.1K	5% 5%	1/10W
R186	1-216-061-00	METAL CHIP	3.3K	5%	1/10W						
D.100	4 64 7 000 00		200	===	4400	R281	1-216-083-00		27K	5%	1/10W
R187	1-216-033-00		220	5%	1/10W	R282	1-216-035-00	METAL CHIP	270	5%	1/1 0W
R188	1-216-067-00		5.6K	5%	1/10W				0014	=0/	4446144
R191	1-216-097-00		100K	5%	1/10W	R283	1-216-092-00		62K	5%	1/10W
R192	1-216-082-00		24K	5%	1/10W	R285	1-216-053-00		1.5K	5%	1/10W
R193	1-216-073-00	METAL CHIP	10K	5%	1/10W	R286	1-216-061-00		3.3K	5%	1/1 0W
						R287	1-216-033-00		220	5%	1/10W
R194	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R288	1-216-067-00	METAL CHIP	5.6K	5%	1/1 0W
R195	1-216-079-00	METAL CHIP	18K	5%	1/10W						
R196	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	R291	1-216-097-00		100K	5%	1/10W
R197	1-216-049-00	METAL CHIP	1K	5%	1/10W	R292	1-216-082-00	METAL CHIP	24K	5%	1/1 0W
R198	1-216-081-00	METAL CHIP	22K	5%	1/10W	R293	1-216-073-00	METAL CHIP	10K	5%	1/10W ·
						R294	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R201	1-216-097-00	METAL CHIP	100K	5%	1/10W	R295			18K	5%	1/10W
R202	1-216-071-00		8.2K	5%	1/10W	1.200					
R203	1-216-061-00		3.3K	5%	1/10W	R296	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R204	1-216-105-00		220K	5%	1/10W	R297	1-216-049-00		1K	5%	1/10W
R205	1-216-049-00		1K	5%	1/10W	R298	1-216-081-00		22K	5%	1/10W
nzus	1-210-049-00	WILLIAL OTHE	IN	J /0	1/1044	R301	1-208-813-11		20K	2%	1/10W
D011	1 010 005 00	MACTAL CLUD	4 7V	E0/	4/4014				20K	5%	1/10W
R211	1-216-065-00		4.7K	5%	1/10W	R302	1-210-001-00	WE IAL OHIP	221	376	1/1044
R212	1-216-073-00		10K	5%	1/10W	Door	4 040 040 00	METAL CHIO	41/	En/	1/1014/
R213	1-216-061-00		3.3K	5%	1/10W	R303	1-216-049-00		1K	5%	1/10W
R214	1-216-057-00		2.2K	5%	1/10W	R311	1-216-685-11		27K	2%	1/10W
R216	1-216-058-00	METAL CHIP	2.4K	5%	1/10W	R312	1-216-081-00		22K	5%	1/10W
						R313	1-216-049-00		1K	5%	1/10W
R217	1-216-073-00		10K	5%	1/10W	R316	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R218	1-216-089-00		47K	5%	1/10W						
R221	1-216-058-00		2.4K	5%	1/10W	R317	1-216-097-00		100K	5%	1/1 0W
R222	1-216-101-00	METAL CHIP	150K	5%	1/10W	R321	1-216-057-00		2.2K	5%	1/10W
▲ R223	1-219-153-11	FUSIBLE	10	5%	1/4W F	R322	1-216-049-00	METAL CHIP	1K	5%	1/1 0W
						R323	1-216-040-00	METAL CHIP	470	5%	1/1 0W
R224	1-216-085-00	METAL CHIP	33K	5%	1/10W	R324	1-216-050-00	METAL CHIP	1.1K	5%	1/1 0W
R225	1-216-067-00		5.6K	5%	1/10W						
R241	1-216-097-00		100K	5%	1/10W	R325	1-216-080-00	METAL CHIP	20K	5%	1/10W
R251	1-216-097-00		100K	5%	1/10W	R328	1-216-049-00		1K	5%	1/10W
R252	1-216-029-00		150	5%	1/10W	R329	1-216-059-00		2.7K	5%	1/10W
1,202	. 210 020 00	VIIII		- 70		R330	1-249-390-11		5.6	5%	1/4W
R253	1-216-041-00	METAL CHID	470	5%	1/10W	R331	1-249-390-11		5.6	5%	1/4W
R254	1-216-041-00		5.1K	5%	1/10W 1/10W	11001	1 249 030-11	Ora (DOI)	0.0	J /0	17 7 9 9
				5%	1/10W	R332	1-249-440-11	CARRON	82K	5%	1/4W
R255	1-216-066-00		5.1K						82K		1/4W
R256	1-216-046-00		750 750	5% 5%	1/10W	R333	1-249-440-11			5%	
R257	1-216-046-00	WE FAL CHIP	750	5%	1/10W	R341	1-208-813-11		20K	2%	1/10W
						R342	1-216-069-00	WEIAL CHIP	6.8K	5%	1/10W

MAIN

HP JACK

D (N	D . N	Barrello Barrello			D	D.C.N.	D4-N-	D			Demonde
Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R343	1-216-081-00	METAL CHIP	22K	5%	1/10W	R710 R711	1-216-069-00 1-216-049-00		6.8K 1K	5% 5%	1/10W 1/10W
R344	1-216-081-00	METAL CHIP	22K	5%	1/10W	R712	1-216-065-00		4.7K	5%	1/10W
R351	1-216-057-00		2.2K	5%	1/10W	117.12	1 210 000 00	MEDIC OIII	4,710	0 /0	171011
R352	1-216-057-00		2.2K	5%	1/10W	R713	1-249-417-11	CARRON	1K	5%	1/4W
	1-216-054-00		1.6K	5%	1/10W	R714	1-216-065-00		4.7K	5%	1/10W
R371						R714	1-216-072-00		9.1K	5% 5%	1/10W
R372	1-216-097-00	METAL CHIP	100K	5%	1/1 0W	1					
D070	4 040 007 00	METAL OLUB	4001/	ro/	4 (4 0)34	R716	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R373	1-216-097-00		100K	5%	1/10W		4 040 000 00		4-14		D, E, AUS)
R374	1-216-689-11		39K	0.5%	1/10W	R717	1-216-089-00	METAL CHIP	47K	5%	1/10W
R375	1-216-081-00		22K	5%	1/10W						
R376	1-216-057-00		2.2K	5%	1/10W	R718	1-216-081-00		22K	5%	1/10W
R377	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	 ▲R719	1-219-135-11	FUSIBLE	0.15	10%	1/4W F
						 ▲R720	1-219-137-11		0.33	10%	1/4W F
R378	1-216-066-00	METAL CHIP	5.1K	5%	1/1 0W	R721	1-249-425-11	CARBON	4.7K	5%	1/4W
R379	1-216-057-00	METAL CHIP	2.2K	5%	1/1 0W	R722	1-216-689-11	METAL CHIP	39K	0.5%	1/1 0W
R385	1-247-696-11	CARBON	47	5%	1/4W						
R391	1-216-081-00	METAL CHIP	22K	5%	1/10W	R723	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R401	1-216-080-00	METAL CHIP	20K	5%	1/1 0W	R724	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
						R725	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R402	1-216-078-00	METAL CHIP	16K	5%	1/10W					(US, CN	D, E, AUS)
R403	1-216-070-00	METAL CHIP	7.5K	5%	1/10W	 ⚠R730	1-219-139-11	FUSIBLE	0.68	10%	1/4W F
R404	1-216-089-00	METAL CHIP	47K	5%	1/10W	▲R731	1-219-139-11	FUSIBLE	0.68	10%	1/4W F
R405	1-216-080-00		20K	5%	1/10W						
R406	1-216-092-00		62K	5%	1/10W	R801	1-216-081-00	METAL CHIP	22K	5%	1/10W
	, = , 0 00= 00					R802	1-216-081-00		22K	5%	1/10W
R407	1-216-082-00	METAL CHIP	24K	5%	1/10W	R803	1-216-097-00		100K	5%	1/10W
R408	1-216-079-00		18K	5%	1/10W	R804	1-216-049-00		1K	5%	1/10W
R409	1-216-074-00		11K	5%	1/10W	R806	1-216-065-00		4.7K	5%	1/10W
R410	1-216-085-00		33K	5%	1/10W	11000	1 210 000 00	WE WE OWN	-1111	0,10	1, 1011
R411	1-216-689-11		39K	5%	1/10W	R807	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
11711	1-210-009-11	WILLIAL OTH	OOK	370	1710,00	R808	1-216-065-00	_	4.7K	5%	1/10W
R412	1-216-082-91	METAL CHIP	24K	5%	1/10W	R809	1-216-065-00		4.7K	5%	1/10W
R413	1-216-085-00		33K	5%	1/10W	R810	1-216-059-00		2.7K	5%	1/10W
R414	1-216-090-00		51K	5%	1/10W	R811	1-216-059-00		2.7K	5%	1/10W
			30K		1/10W	ROII	1-210-055-00	WEIAL OTTE	2.1 K	J /0	171044
R415	1-216-084-00			5%		R812	1-216-049-00	METAL CHID	1K	5%	1/1 0W
R416	1-216-090-00	METAL CHIP	51K	5%	1/1 0W	1	1-216-053-00				1/10W
D247	4 046 000 00	METAL CHID	071/	E0/	4/4/014/	R813			1.5K	5%	
R417	1-216-083-00		27K	5%	1/10W	R814	1-216-061-00		3.3K	5%	1/10W
R418	1-216-081-00		22K	5%	1/10W	R815	1-216-045-00		680	5%	1/10W
R423	1-216-089-00		47K	5%	1/10W	R816	1-216-034-00	METAL CHIP	240	5%	1/1 0W
R425	1-216-097-00		100K	5%	1/10W	4 5047	4 040 054 44	FUOIDI F	0.0	F0/	4 (O)A(F
R426	1-216-061-00	METAL CHIP	3.3K	5%	1/1 0W	▲R817	1-212-954-11		6.8	5%	1/2W F
D.107	4 040 000 00	145711 01110		201	4440144	R818	1-216-049-00		1K	5%	1/10W
R427	1-216-069-00		6.8K	5%	1/10W	R819	1-216-052-00		1.3K	5%	1/10W
R431	1-216-081-00		22K	5%	1/10W	R820	1-216-050-00		1.1K	5%	1/10W
R432	1-216-033-00		220	5%	1/10W	 ▲ R821	1-212-952-00	FUSIBLE	5.6	5%	1/2W F
R701	1-249-417-11		1K	5%	1/4W	l					
R702	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	R822	1-216-097-00		100K	5%	1/10W
						R823	1-216-073-00		10K	5%	1/10W
R703	1-216-055-00		1.8K	5%	1/10W	R824	1-216-049-00		1K	5%	1/10W
R704	1-216-030-00	METAL CHIP	160	5%	1/10W	R825	1-216-089-00	METAL CHIP	47K	5%	1/1 0W
R705	1-216-069-00	METAL CHIP	6.8K	5%	1/10W.	R831	1-216-073-00	METAL CHIP	10K	5%	1/10W
R706	1-216-053-00	METAL CHIP	1.5K	5%	1/10W			•			
R707	1-216-073-00	METAL CHIP	10K	5%	1/10W	R832	1-216-073-00	METAL CHIP	10K	5%	1/10W
						R834	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R708	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	R835	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R709	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	R845	1-216-073-00	METAL CHIP	10K	5%	1/10W

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ∆ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

MAIN

HP JACK

MD

PANEL

DISPLAY

EJECT

POWER SW

PRIMARY

SECONDARY

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark	
R846	1-216-073-00	METAL CHIP	10K	5%	1/10W			< SWITCH >				
R847	1-216-073-00	METAL CHIP	10K	5%	1/10W	S1001	1-466-238-11	ENCODER, ROTA	IRY			
R848	1-216-073-00	METAL CHIP	10K	5%	1/10W	S1002	1-570-953-11	SWITCH, PUSH	(1 KEY) (DOC	(R)		
R849	1-216-073-00	METAL CHIP	10K	5%	1/10W	S1003	1-572-126-11	SWITCH, PUSH ((1 KEY) (CLO	SE)		
R850	1-216-073-00	METAL CHIP	10K	5%	1/10W	S1004	1-571-958-11	SWITCH, PUSH ((1 KEY) (OPE	N)		
R851	1-216-073-00		10K	5%	1/10W	S1005	1-572-125-11	SWITCH, LEAF (ERASE PROO	F)		
		< VARIABLE RESI	STOR >			S1006	1-572-202-11	SWITCH, LEAF (I	HALF)			
		C PARTICIPAL TREOR	010117			\$1007		SWITCH, LEAF (
RV111	1-238-019-11	RES, ADJ, CARBO	N 47K			S1008	1-572-125-11	SWITCH, LEAF (7	70µS)			
RV112	1-241-765-11	RES, ADJ, CARBO	N 22K									
RV121	1-241-765-11	RES, ADJ, CARBO	N 22K					< TERMINAL >				
RV151	1-241-759-21	RES, ADJ, CARBO	N 220									
		RES, ADJ, CARBO				* TB1001	1-694-018-11	TERMINAL (5P)				
RV212	1-241-765-11	RES, ADJ, CARBO	N 22K			*****			են անգան անգանական անգանական անգա	enter de de de de de .	er etres en etre etre etre	
		RES, ADJ, CARBO				*	A-2007-538-A	PANEL BOARD, (COMPLETE (JS. CND	AUS)	
		RES, ADJ, CARBO				*		PANEL BOARD, COMPLETE (AEP, UK, G, SP)				
RV312	1-241-763-11	RES, ADJ, CARBO	N A 7K			*		PANEL BOARD,			-, ,	
111012	1 241 700 11	1120, 1100, 011100						*****		-,		
		< TRANSFORMER	>									
								DISPLAY BOARD)			
T121		TRANSFORMER, E						******				
T221	1-433-344-11	TRANSFORMER, E	BIAS OSCILI	LATION								
T321	1-423-614-11	TRANSFORMER, E	BIAS OSCILI	LATION				EJECT BOARD				

		< CONNECTOR >										
								POWER SW BOA				
* TP321		PLUG, CONNECTO						******	***			
* TP802	1-560-060-00	PIN, CONNECTOR	2P									
								PRIMARY BOARD (EXCEPT E)				
		< VIBRATOR >						*********				
X801	1-577-358-21	VIBRATOR, CERAMIC (4MHZ)						SECONDARY BO	ARD			
***************						******	***					
*	1-632-740-11	MD BOARD				*	3-386-245-11	HOLDER (FL)			•	

								< CAPACITOR >				
	3-356-631-01	HOLDER (SENSOF	٦)									
						△C717	1-113-925-11	ELECT	0.01uF	20%	250V	
		< CONNECTOR >								(AEP,	UK, G, SP)	
						C720	1-136-165-00	FILM	0.1uF	5%	50V (E)	
CN1001	1-506-615-11	PIN, CONNECTOR	9P			C721	1-136-165-00	FILM	0.1uF	5%	50V (E)	
CN1002	1-564-501-11	PIN, CONNECTOR	8P			C722	1-136-165-00	FILM	0.1uF	5%	50V (E)	
						C723	1-136-165-00	FILM	0.1uF	5%	50V (E)	
		< IC >										
						C724	1-164-159-11	CERAMIC	0.1uF		50V (E)	
IC1001	8-749-920-97	IC PHOTO REFLE	CTOR GP29	S22B		C725	1-136-165-00	FILM	0.1uF	5%	50V	
		IC PHOTO REFLE							(US, CND, A		G, SP, AUS)	
				1		C726	1-136-165-00	FILM	0.1uF	5%	50V	
		< RESISTOR >							(US, CND, A			
									, .,,			
R1001	1-247-810-11	CARBON	130	5%	1/4W							
	1-247-810-11		130	5%	1/4W							

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

PANEL

DISPLAY

EJECT

POWER SW

PRIMARY

SECONDARY

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C727	1-136-165-00	FII M	0.1uF	5%	50V	R911	1-249-422-11	CARBON	2.7K	5%	1/4W
0121	1-130-103-00	I, I LIVI		AEP, UK, G,		R912	1-247-848-11		5.1K	5%	1/4W
C728	1-136-165-00	FII M	0.1uF	5%	50V	R915	1-249-429-11		10K	5%	1/4W
0/20	1-130-103-00	LILIM		AEP, UK, G		R916	1-247-866-11		30K	5%	1/4W
			(00, 0110,	ALI, ON, U	01,7100,	R917	1-247-836-11		1.6K	5%	1/4W
0700	1-164-159-11	CEDAMIC	0.1uF		50V	71317	. 1 211 000 11	0,412011		• , •	
C729	1-104-139-11	CENAIVILL		AEP, UK, G	-	R918	1-247-840-00	CARRON	2.4K	5%	1/4W
			(กร์, กุฬก์,	AEP, UK, U	or, Audj	R919	1-249-423-11		3.3K	5%	1/4W
		COMMITTOE				R920	1-249-426-11		5.6K	5%	1/4W
		< CONNECTOR	>				1-249-420-11		13K	5%	1/4W
				/AED 111/ 0	OD)	R921			36K	5%	1/4W
* CN901		CONNECTOR, F				R922	1-247-868-11	CANDON	JUN	3 /0	1/-744
CN901		SOCKET, CONN		(US, CND, E	:, AUS)	5000	4 047 007 04	CADDON	100	Eo/	1/4W
CN902		CONNECTOR, F				R923	1-247-807-31	CARBON	100	5%	1/4 VV
* CNP702	1-580-230-31	PIN, CONNECT						1/4 D 4 D 5 D 5 C	UOTOD		
				AEP, UK, G	, SP, AUS)			< VARIABLE RES	SISTOR >		
CNP703	1-568-226-11	PIN, CONNECT	OR 2P (AEP,	UK, G, SP)						DEO 1 51/5	-1.5
						RV311		RES, VAR, CARE			:L)
		< DIODE >				RV321		RES, VAR, CARE			
						RV395		RES, VAR, CARE			
D901	8-719-987-63	DIODE 1N414	8M			RV396	1-225-220-11	RES, VAR, CARE	ON 50K/50	K (REC LE	EVEL)
D902	8-719-987-63	DIODE 1N414	8M								
D903		DIODE 1N414				ļ		< SWITCH >			
5000	0 . 10 00. 00										
		< IC >				S901	1-554-303-21	SWITCH, TACTIL	E (■)		
		1107				S902	1-554-303-21	SWITCH, TACTIL	E (◀◀)		
IC901	9_7/1_910_50	IC SBX1810-5	50			S903		SWITCH, TACTIL			
10901	0-741-010-00	IO ODATOTO	,,,			S904		SWITCH, TACTIL)	
		< TRANSISTOR	2 .			S905		SWITCH, TACTI			
		CINANOISIO	17			0000			(•	,	
0001	0 700 000 00	TRANSISTOR	DTC144ES			S906	1-554-303-21	SWITCH, TACTII	F ·(I>>)		
Q901						S907		SWITCH, TACTII		SF)	
Q902		TRANSISTOR				S908		SWITCH, TACTI			
Q903	8-729-900-89	TRANSISTOR	D10144E5			S909		SWITCH, TACTI			
		DEGLOTOD						SWITCH, TACTI			
		< RESISTOR >				S910	1-004-000-2	SWITCH, IACTH	TE (INICIALIT	ony	
			4 714	F0/	4 /4141	0011	1 554 202 21	SWITCH, TACTI	E (CALIBE	ATION	
R115	1-249-425-11		4.7K	5%	1/4W	S911					
R215	1-249-425-11		4.7K	5%	1/4W	S912		SWITCH, TACTI	•		
R327	1-249-429-11		10K	5%	1/4W	S913		SWITCH, ROTAR			
R830	1-249-429-11		10K	5%	1/4W	S915	1-/62-580-11	SWITCH, PUSH	(I KEY) (PC		ND C AUC)
R833	1-249-429-11	CARBON	10K	5%	1/4W				WED BUOL		ND, E, AUS)
					4 4 4 4 4 4	₼ S922	1-/62-581-11	SWITCH, AC PO	WER PUSH		
R838	1-249-441-11		100K	5%	1/4W					(AEF	P, UK, G, SP)
R839	1-249-441-11		100K	5%	1/4W						
R840	1-249-441-11	CARBON	100K	5%	1/4W			< TRANSFORME	:K >		
R841	1-249-441-11	CARBON	100K	5%	1/4W						
R842	1-249-441-11	CARBON	100K	5%	1/4W	▲ T701		TRANSFORMER			
						▲T701		TRANSFORMER			i, SP)
R843	1-249-441-11	CARBON	100K	5%	1/4W	▲T701		TRANSFORMEE			
R844	1-249-441-11		100K	5%	1/4W	△T701	1-429-656-11	TRANSFORMER	, POWER (AUS)	
R861	1-249-441-11		100K	5%	1/4W						
R901	1-249-441-11		100K	5%	1/4W			< FLUORESCEN	T INDICATO	R TUBE >	•
R905	1-247-838-00		2K	5%	1/4W						
11000	1 241 000 00	J/11/2011		- /-		VFD901	1-517-163-11	INDICATOR TUE	E, FLUORE	SCENT	
R906	1-249-422-11	CARRON	2.7K	5%	1/4W	******	******	******	*****	*****	******
R907	1-249-422-11		5.1K	5%	1/4W						
	1-247-646-11		10K	5%	1/4W						
R908			30K	5% 5%	1/4W			•			
R909	1-247-866-11			5% 5%	1/4W						
R910	1-247-838-00	UARBUN	2K	J%	1/4 VV	1					

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ∆ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

REEL MOTOR

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description	Remark
*	1-632-741-21	REEL MOTOR BOA					*******		
		********	***					HARDWARE LIST	
		< CAPACITOR >				ща	7 600 540 04	CODEW DUTT OVE	(6)
C1051	1-124-907-11	ELECT	10uF	20%	50V	#1 #2		SCREW +BVTT 3X8 (SCREW +BVTT 3X6 (
C1052	1-124-907-11		10uF	20%	50V	#3		SCREW +BVTP 3X8	
C1053	1-164-159-11	CERAMIC	0.1uF		50V	#4		SCREW (+ PTPWH)	
		< CONNECTOR >				#5	7-000-003-19	SCREW +BTP 2.6X6	I TPEZ N-3
						#6		SCREW +BVTT 2X4 ((S)
	1-568-945-11					#7		SCREW +B 2X5	
		PIN, CONNECTOR				#8 #9		SCREW +BTP 2.6X4	
* CN1053	1-304-/18-11	PIN, CONNECTOR	(SWALL I	TPE) ZP				SCREW +BVTT 2X5 (
		< DIODE >							
		DIODE 01 - 00-0		FRONT RAI	MEL X			ACCESSORIES & PA	
D1001	8-719-980-85	DIODE SLF-3250	ON THE	FRONT PAI	NEL)			******	* * * * * * * * * * * * * * * * * * *
		< RESISTOR >					1-551-734-11	CORD, CONNECTION	i
							3-856-296-11		ION (ENGLISH, FRENCH,
R1051	1-247-825-31	CARBON ********	560	5%	1/4W		2 956 206 21		I, PORTUGUESE)(CND, AEP)
****	*****	*******	****	41 44 44 44 44 44 44 44 44 4	-		3-830-290-21	MANUAL, INSTRUCT	(US, UK, AUS)
		MISCELLANEOUS					3-856-296-31	MANUAL, INSTRUCT	TION (GERMAN, DATCH,
•		******					0.050.000.44	********* INOTOLIOT	SWEDISH, ITALIAN)(AEP)
 ∆10	1-560-007-11	ADAPTER, CONVE	RSION 2P	(F)			3-856-296-41	MANUAL, INSTRUCT	ION (GERMAN)(G)
63		WIRE (FLAT TYPE		(-)			3-856-296-51	MANUAL, INSTRUCT	TION (ENGLISH, FRENCH,
64.		WIRE (FLAT TYPE)					SPANISH, CHINESE)(E, SP)
		CORD, POWER (E				*		CUSHION (AEP, UK,	
△ CNP901	1-558-945-21	CORD, POWER (P	OLAR.SPT-	-1)(US, CN	ID)	*		INDIVIDUAL CARTO	
		0000 00WED /	ED 0 0D)			*		INDIVIDUAL CARTO	
		CORD, POWER (A				*	3-935-041-01	INDIVIDUAL CARTO	N (E, AUS)
		CORD, POWER (U				*	3-936-086-01	CUSHION (US, CND)	
D1001		DIODE SLF-325C	103)				0-300-000-01	000111014 (00, 0110)	
HE301		HEAD, MAGNETIC	(FRASE)						
HEOOT	1 040 070 11	TIERD, MINGHETTO	(2,1,102)						
		HEAD, MAGNETIC			()				
		MOTOR (CAPSTA		SSY					
		MOTOR (REEL RA							
M1052		MOTOR (ASSIST)							
S1001	1-466-238-11	ENCODER, ROTAR	17						
 ∆S701		SELECTOR, POWI							
▲ T701		TRANSFORMER,							
▲ T701		TRANSFORMER,			SP)				
△T701		TRANSFORMER,	. ,						
△T701	1-429-656-11	TRANSFORMER,	POWER (AL	JS)	مان دان دان دان دان				
******	*********	~~~~~~~	****	~~~~~~	~~~~~	•			

TC-KA2ES/KE600S